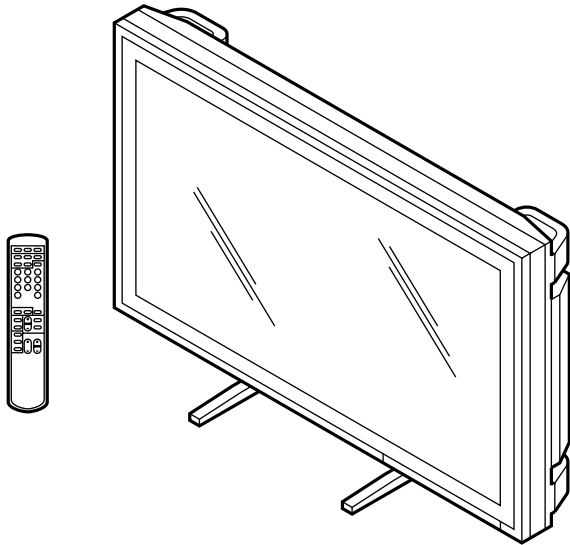


SERVICE MANUAL

MODEL	DEST.	CHASSIS NO.	MODEL	DEST.	CHASSIS NO.
PFM-500A3WE	AEP		BKM-500		
PFM-500A3WG	E		MB-514		
PFM-500A3WU	US/CND		RM-921		
PFM-510A2WE	AEP				
PFM-510A2WG	E				
PFM-510A2WU	US/CND				



PFM-500A3W/510A2W
BKM-500
MB-514
RM-921

Flat Panel Monitor
Input Adaptor
Mounting Bracket
Remote Commander

⚠ 警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、
人身事故につながる可能性があります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that
contained in the operating instructions unless you are qualified to do so. Refer all servicing to
qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die
Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei
Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben
Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung
dazu besitzen.

⚠ AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin
de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les
réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres.
Pour toute réparation faire appel à une personne compétente uniquement.

WARNING!!

AN INSULATED TRANSFORMER SHOULD BE USED DURING
ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BE-
CAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED
TO THE AC POWER LINE.

ATTENTION!!

AFIN D'ÉVITER TOUT RISQUE D'ÉLECTROCUTION
PROVENANT D'UN CHÂSSIS SOUS TENSION, UN
TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS
DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT
RACCORDÉ À L'ALIMENTATION SECTEUR.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY A ⚠ MARK ON THE SCHEMATIC
DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE
CRITICAL TO SAFE OPERATION. REPLACE THESE COMPO-
NENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-
LISHED BY SONY.

**ATTENTION AUX COMPOSANTS RELATIFS À LA
SÉCURITÉ!!**

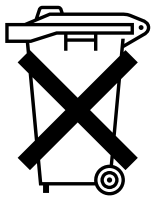
LES COMPOSANTS IDENTIFIÉS PAR UNE MAPQUE ⚠ SUR
LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES
LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE
POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES
REPLACER QUE PAR DES COMPOSANTS SONY DONT LE
NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT
MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

Voor de klanten in Nederland

Dit apparaat bevat een CR2025 batterij voor memory back-up.

Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.

Gooi de batterij niet weg, maar lever hem in als KCA.



Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ.
Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

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Section 1

Operating Instructions

This section is reprinted
from operation manual.

1-1. PFM-500A3WE/500A3WG/500A3WU/510A2WE/510A2WG/510A2WU Operating Instructions

4-076-854-01 (1)

SONY®

SONY

PFM-510A2WU/510A2WE/510A2WJ/510A2WG/500A3WU/500A3WE/500A3WJ/500A3WG

Flat Panel Monitor

Operating Instructions

GB

PFM-510A2WU/510A2WE/510A2WJ/510A2WG
PFM-500A3WU/500A3WE/500A3WJ/500A3WG

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WARNING

Owner's Record

The model and serial numbers are located on the rear.
Record the model and serial numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in Canada

This class A digital apparatus complies with Canadian ICES-003.

For the customers in Europe

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

For PFM-510A2WE/510A2WG/500A3WE/
500A3WG users

THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow : Earth
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol \perp or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Voor de klanten in Nederland



Bij dit produkt zijn batterijen geleverd.
Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

Note

When you connect a computer to this monitor, attach the supplied ferrite cores. If you do not do this, this monitor will not conform to mandatory FCC/IC/CE (EN55022) standards.

Attaching the ferrite cores

Set the ferrite cores on the both ends of the AC power cord. Close the lid tightly until the clamps click.

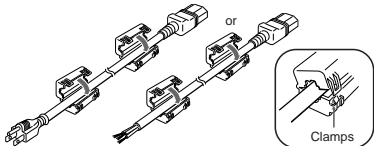


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Precautions

On safety

- Operate the unit on 100 to 120 V AC or 220 to 240 V AC.
- A nameplate indicating operating voltage, power consumption, etc. is located on the rear.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for several days or more.
- To disconnect the AC power cord, pull it out by grasping the plug. Never pull the cord itself.
- When the unit is installed on the floor, be sure to use the retractable feet.

On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- When you install multiple equipment with the unit, the following, such as malfunction of the Remote Commander, noisy picture, noisy sound, may occur depending on the position of the unit and other equipment.

On the PDP (Plasma Display Panel)

- There may be some tiny black points and/or bright points on the PDP. These points are normal.
- Do not display the same still image on the screen for a long time. Otherwise, an afterimage or ghost may appear on a part of the panel. Use the screen saver function to equalize use of the screen display.

On cleaning

To keep the unit looking brand-new, periodically clean it with a mild detergent solution. Never use strong solvents such as thinner or benzene, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the unit before cleaning it.

Precautions

On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

If you have any questions about this unit, contact your authorized Sony dealer.

For PFM-510A2WE/500A3WE Users

The PFM-510A2WE/500A3WE Flat Panel Monitor will not function by itself. Install the BKM-500 or BKM-501D Input Adaptor in the monitor. If you are using the BKM-500, refer to this Operating Instructions. If you are using the BKM-501D, refer to the Operating Instructions supplied with the BKM-501D.

For more details, contact your authorized Sony dealer.

Features

The PFM-510A2W/500A3W series are 16:9 42-inch flat panel monitors adopting a PDP (Plasma Display Panel), which can accept various types of signals with the built-in scan converter.

Improved image quality

The PFM-510A2W series achieves higher image quality with its PDP (Plasma Display Panel) set to 1024 dots × 1024 lines. This makes for a finely-detailed HDTV and PC image.
The PFM-500A3W series achieves brighter image quality with 852 dots (horizontal) × 480 lines (vertical) adopting PDP technology.

Internal high-performance scan converter

The monitor has a high performance scan converter. Using a unique algorithm, the monitor processes signals in a wide range of formats – Video, HDTV, PC, etc.

Flexibility

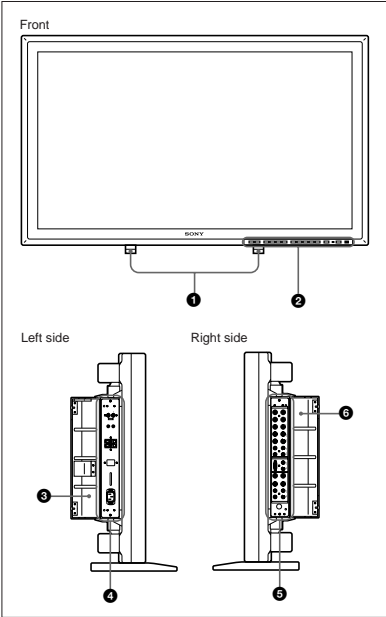
An option slot is in place for future expansion. The slot-in option adapter allows for quick and easy system upgrades.

Other features

- Three sets of video inputs with audio inputs: one composite video or Y/C input, one RGB input, and one RGB/component input.
- Displays the HDTV signal with a tri-level sync signal.
- Three dimensional comb filter for NTSC Y/C separation.
- Line correlation comb filter for PAL Y/C separation.
- Automatic input signal detection with on-screen indication.
- Windows[®]95/98 PnP (Plug and Play) compatible.
- Picture AGC function — this function automatically adjusts and improves the contrast when a low intensity signal is input.
- On-screen menu for various adjustments and settings
- On-screen display in six languages for user-friendly access. (Languages: English, German, French, Italian, Spanish and Japanese)
- Fine adjustment of image size and position
- Memory function for storage of up to twenty picture settings.
- ID control
- Self-diagnosis function.
- Remote (RS-232C) connector (mini DIN 8-pin)
- Control-S connector
- Accepts infrared or wired Sony Remote Commanders using SIRCS code.
- Vertical setup
- Closed caption decoder
- Screen saver to reduce an afterimage or ghosting.

Location and Function of Parts and Controls

Front / Sides



1 Retractable feet

Use for setting the monitor on the floor.
For details on using the retractable feet, see “Using the Retractable Feet” on page 13 (GB).

2 Control panel

For details on the control panel, see “Control Panel” on page 8 (GB).

3 Left panel cover

Open this when using the left connector panel.
You can install the Remote Commander in a slot on the back of this cover.
For details on opening the panel cover, see the right-hand side of this page.

4 Left connector panel

For details on the left connector panel, see “Left Connector Panel” on page 10 (GB).

5 Right panel cover

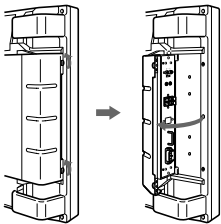
For details on the right connector panel, see “Right Connector Panel” on page 9 (GB).

6 Right panel cover

Open this when using the right connector panel.
For details on opening the panel cover, see below.

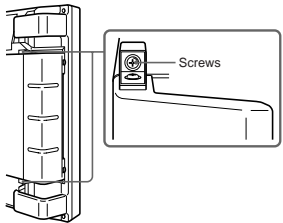
To open the panel cover

Loosen the screws counterclockwise and open the cover.



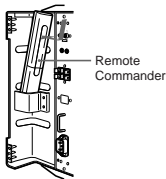
To take off the panel cover

Loosen the screws as illustrated below and take off the panel cover.



To install the Remote Commander in the panel cover

Install the Remote Commander in the slot on the back of the left panel cover as illustrated below.



Note

When housing the Remote Commander, make sure that the top of the Remote Commander faces upward and the rear faces outside.

Warning on power connection

Use a proper power cord for your local power supply.

	United States, Canada	Continental Europe	United Kingdom, Ireland, Australia, New Zealand	Japan
Plug type	VM0033B	COX-07 636	—a)	VM1296
Female end	VM0113	COX-02 VM0310B	VM0303B	VM1313
Cord type	SJT	H05VV-F	CEE (13) 53rd (O.C)	HVCTF
Minimum cord set rating	13A/125V	10A/250V	10A/250V	10A/125V
Safety approval	UL/CSA	VDE	VDE	DENTORI

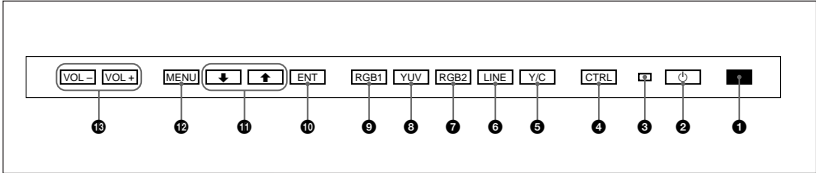
a) Note: Use an appropriate rating plug which is applied to local regulations.

1) Windows is a registered trademark of the Microsoft Corporation.

6 (GB)

7 (GB)

Control Panel



1 Remote control detector
Receives the beam from the Remote Commander.

2 $\text{\textcircled{I}}$ (standby) switch/ $\text{\textcircled{I}}$ (standby) indicator
Press to turn on the monitor. Press again to go back to the standby mode.
The $\text{\textcircled{I}}$ (standby) indicator lights up in red in the standby mode.
When the $\text{\textcircled{I}}$ indicator flashes, see “Self-diagnosis Function” on page 36 (GB).

3 Power indicator
Lights up when the monitor is turned on.

4 CTRL (control) button
To operate the buttons on the control panel, first press this button. When the buttons light up or flash that shows that they can be operated. Press again to deactivate them.

Note
The buttons (except for $\text{\textcircled{I}}$ (standby) switch **2**) on the control panel do not function if you do not press the CTRL button first.

5 Y/C button
Selects the signal input from the Y/C IN jack among the LINE connectors.

6 LINE button
Selects the signal input from the VIDEO IN connector among the LINE connectors.

7 RGB2 button
Selects the signal input from the RGB2 connectors.

8 YUV button
Selects the component signal input from the RGB1 connectors.

9 RGB1 button
Selects the RGB signal input from the RGB1 connectors.

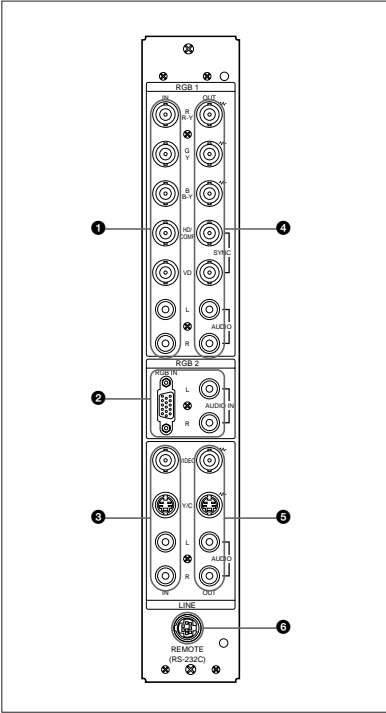
10 ENT (enter) button
Press to select the desired item from the menu displayed.

11 \uparrow/\downarrow buttons
Press to move the cursor (\blacktriangleright) to an item or to adjust a value in a menu.

12 MENU button
Press to make the menu appear.

13 VOL (volume) +/- buttons
Press the + button to increase the volume, or the – button to decrease the volume.

Right Connector Panel



Note
The image enhancing process for video signals (NTSC, PAL, SECAM, NTSC4.43, PAL60) works only for composite (Y/C) or component (Y/R-Y/B-Y) input. The image from the RGB input may look blurred. This is normal.

- 1 RGB1 IN connectors**
R (R-Y)/G (Y)/B (B-Y) IN (BNC-type): Inputs an analog RGB signal or a component signal. Connects to the RGB signal or component (Y/B-Y/R-Y) signal output of a computer or video equipment.
This monitor also accepts an HD analog component (Y/Pb/Pr) signal. Inputs the Pb signal to the B (B-Y) IN connector and Pr signal to the R (R-Y) IN connector.
HD/COMP IN (BNC-type): Inputs an H sync signal or a composite sync signal. Connects to the H sync signal or composite sync signal output of a computer or video equipment.
VD IN (BNC-type): Inputs the V sync signal. Connects to the V sync signal output of a computer or a piece of video equipment.

An external sync signal is selected automatically. See the priority chart below.

Input connector	Input sync signals		
HD/COMP IN	H Sync	Comp Sync	—
VD IN	V Sync	—	—
G(Y) IN	Sync on G	Sync on G	Sync on G
Sync signals to be selected	H Sync	Comp Sync	Sync on G

AUDIO IN (L/R) (phono type): Inputs an audio signal. Connects to the audio output of a computer or a piece of video equipment. Connects to the channel L when the audio signal is monaural.

- 2 RGB2 IN connectors**
RGB IN (D-sub 15-pin): Connects to the RGB signal output of a computer.
AUDIO IN (L/R) (phono type): Inputs an audio signal. Connects to the audio output of a computer. Connects to channel L when the audio signal is monaural.
- 3 LINE IN connectors**
VIDEO IN (BNC-type): Connects to the composite video signal output of the video equipment.
Y/C IN (Mini DIN 4-pin): Connects to the Y/C signal output of the video equipment.
AUDIO IN (L/R) (phono type): Connects to the audio output of the video equipment. Connects to channel L when the audio signal is monaural.

④ RGB1 OUT connectors

These connectors are used as loop-through outputs of the RGB1 IN connectors ①. When the plug is connected to the RGB OUT connectors, the 75-ohms termination of the RGB IN connectors is released, and the signal input to the RGB IN connectors is output from the these connectors.

R (R-Y)/G (Y)/B (B-Y) OUT (BNC-type): Loop-through outputs of the RGB IN connectors. Connects to the RGB signal or component (Y/B-Y/R-Y) signal input of another monitor.

HD/COMP OUT (BNC-type): Loop-through output of the HD/COMP IN connector. Connects to the H sync signal or composite sync signal input of another monitor.

VD OUT (BNC-type): Loop-through output of the VD IN connector. Connects to the V sync signal input of another monitor.

Note

The HD/COMP OUT and VD OUT connectors are high impedance outputs. When using these outputs, connect a monitor with a high impedance sync input connector, or the picture might oscillate or disappear because of the sync signal level mismatch.

AUDIO OUT (L/R) (phono type): Loop-through outputs of the AUDIO IN jacks. Connects to the audio inputs of another monitor.

⑤ LINE OUT connectors

These connectors are used as loop-through outputs of the LINE IN connectors ③.

When the plug is connected to the VIDEO OUT connector or Y/C OUT jack, the 75-ohms termination of the VIDEO IN connector or Y/C IN jack is released, and the signal input to the VIDEO IN or Y/C IN jack is output from the VIDEO OUT connector or Y/C OUT jack.

VIDEO OUT (BNC-type): Connects to the composite video signal input of another monitor or video equipment.

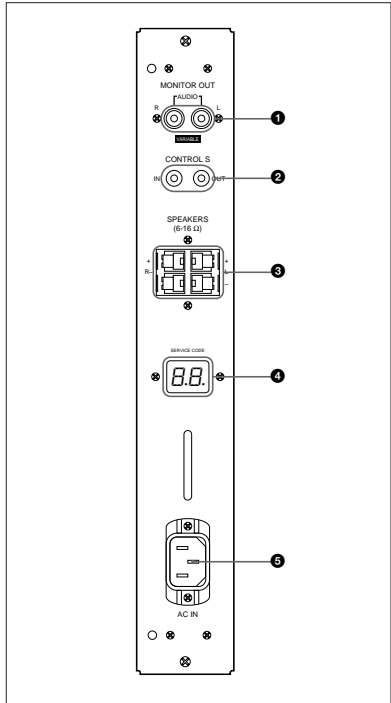
Y/C OUT (Mini DIN 4-pin): Connects to the Y/C signal input of another monitor or a piece of video equipment.

AUDIO OUT (L/R) (phono type): Loop-through outputs of the AUDIO IN jacks. Connects to the audio inputs of another monitor or a piece of video equipment.

⑥ REMOTE (RS-232C) connector (mini DIN 8-pin)

This connector allows remote control of the monitor using the RS-232C protocol. For details, contact your authorized Sony dealer.

Left Connector Panel



① MONITOR OUT AUDIO (L/R) jacks (phono type)

Outputs the signal input from the AUDIO IN jacks. Connects to the audio inputs of an audio amplifier (not supplied).

Note

These jacks are variable outputs. Set the volume to the maximum position to set the output level to 500 mVrms.

② CONTROL S IN/OUT jacks (mini jacks)

Connects to the CONTROL S jacks of video equipment or another monitor. Then you can simultaneously control all equipment with a single Remote Commander.

To control equipment by aiming the supplied Remote Commander at the remote control detector of the monitor, connect the CONTROL S OUT jack of the monitor and the CONTROL S IN jack of the other equipment.

Notes

- If you connect the CONTROL S IN jack to the other equipment's CONTROL S OUT jack, you cannot operate the monitor with the Remote Commander.
- You can use a stereo cable with a mini plug instead of the control S cable.

③ SPEAKERS L/R terminals

Connects to speakers with 6 to 16 ohms impedance.

Note

Do not connect the speaker's cord to the monitor and to an amplifier simultaneously, or an excessive electric current might flow from the amplifier and damage the monitor.

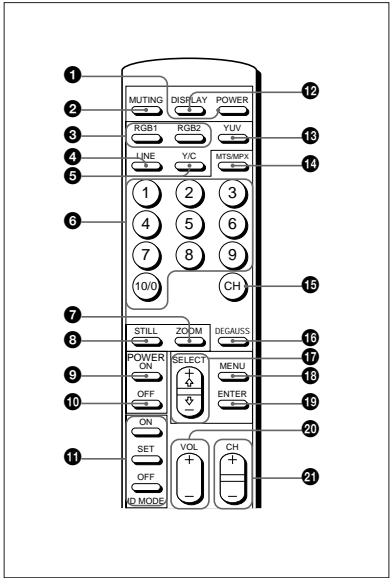
④ SERVICE CODE indicator

The indicator is only for qualified personnel.

⑤ ~AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet. Once you connect the AC power cord, the (standby) indicator lights up in red and the monitor turns to standby mode.

Remote Commander RM-921



① POWER switch

Press to turn on the monitor. Press again to go back to the standby mode.

Note

When using multiple monitors, press this switch to turn monitors which are already on to the standby mode, or turn on monitors which are in the standby mode.

② MUTING button

Press to mute the sound. Press this button again or press the VOL (volume) +/- button to obtain the sound again.

③ RGB1/RGB2 buttons

Select the signal input from the RGB1 or RGB2 connectors.

④ LINE button

Selects the signal input from the VIDEO IN connector in the LINE connectors.

Location and Function of Parts and Controls

5 Y/C button

Selects the signal input from the Y/C IN jack in the LINE connectors.

6 Number buttons

Press to select the index number.

7 ZOOM button

Each time you press this button, the image size changes (in order) to double (×2), triple (×3), quadruple (×4) and original size.

8 STILL button

This button does not operate with the monitor.

9 POWER ON switch

Press to turn on the monitor. When you use multiple monitors, you can use this switch instead of the POWER switch 1 so as not to affect another monitor which may be already turned on.

10 POWER OFF switch

Press to turn the monitor to the standby mode. When you use multiple monitors, you can use this switch instead of the POWER switch 1 so as not to affect another monitor which may be in the standby mode.

11 ID MODE (ON/SET/OFF) buttons

Press the ON button to make an index number appear on the screen. Then press the index number of the monitor you want to operate and press the SET button. After you finish the operation, press the OFF button to return to the normal mode.

12 DISPLAY button

Displays the input signal information and the time at the top of the monitor screen. Press again to clear it.

13 YUV button

Selects the component signal input from the RGB1 connectors.

14 MTS/MPX button

This button does not operate with the monitor.

15 CH button

This button does not operate with the monitor.

16 DEGAUSS button

This button does not operate with the monitor.

17 SELECT +↑/−↓ buttons

Press to move the cursor (▶) to an item or to adjust a value in a menu.

18 MENU button

Press to make the menu appear.

19 ENTER button

Press to select the desired item in a menu.

20 VOL +/- buttons

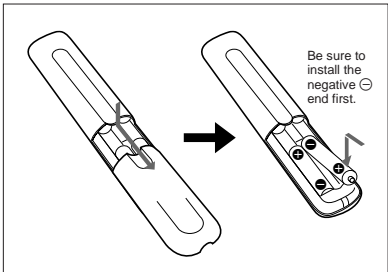
Press the + button to increase the volume, or the − button to decrease the volume.

21 CH +/- buttons

This button does not operate with the monitor.

Installing batteries

Insert two size AA (R6) batteries in correct polarity.



- In normal operation, batteries will last up to half a year. If the Remote Commander does not operate properly, the batteries might be exhausted sooner. Replace them with new ones.
- To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the Remote Commander for a fairly long time.

When the Remote Commander does not work

Check that the indicator lights up. The Remote Commander operates the monitor only when the monitor is turned on, or it is in the standby mode.

Note

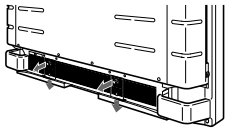
When you use multiple monitors, if you connect the cable to the CONTROL S IN jack on the side of the monitor, you cannot operate the monitor with the Remote Commander.

Installation

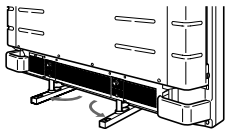
Using the Retractable Feet

This section describes the installation arrangements for installing the monitor.

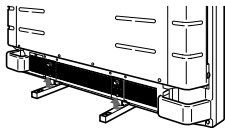
- 1** Pull out the knobs and pull down the retractable feet.



- 2** Turn the retractable feet outward.

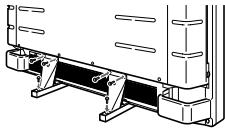


- 3** Push in the retractable feet until you hear the click.



To fix the retractable feet in place

When the monitor is installed on the floor, be sure to fix the retractable feet in place. Install the foot support brackets as illustrated below.

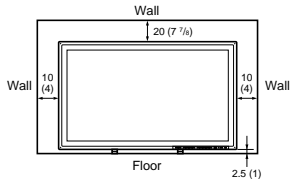


Caution

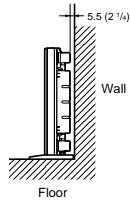
- When you install the monitor, make sure there is more space than that shown in the figure below.
- The ambient temperature must be 0 °C to +35 °C (32 °F to 95 °F).

When using the retractable feet

Front



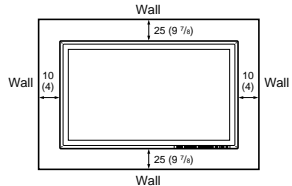
Side



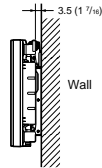
Units: cm (inches)

When using the mounting bracket

Front



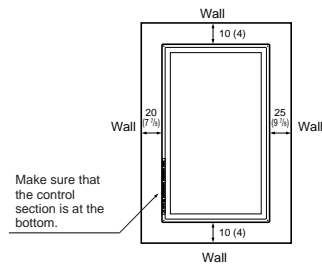
Side



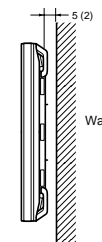
Units: cm (inches)

Hooked on the wall: Vertically

Front



Side

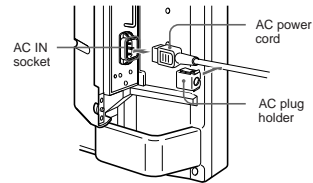


Units: cm (inches)

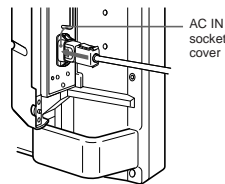
Connections

Connecting the AC Power Cord

- 1 Plug the power cord into the AC IN socket. Then, attach the AC plug holder (supplied) to the AC power cord.



- 2 Slide the AC plug holder over the cord until it connects to the AC IN socket cover.



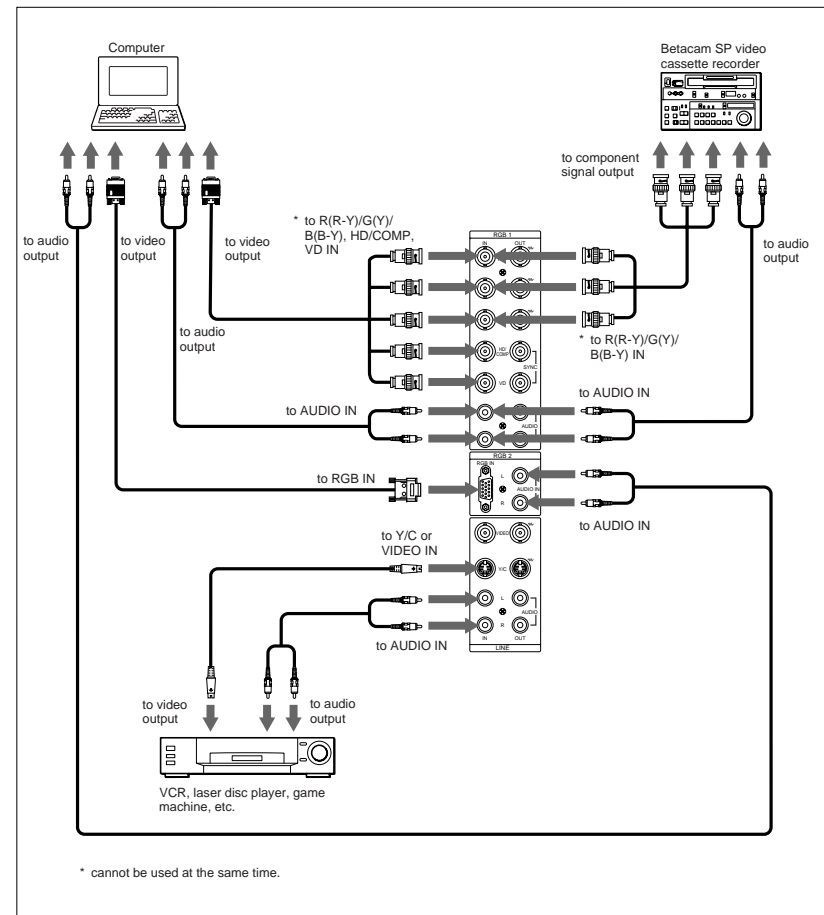
To remove the AC power cord

Squeeze the upper and lower sides and pull out the AC plug holder.

Connection Example

Before you start

- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and other noise.
- To disconnect the cable, pull it out by grasping the plug. Never pull the cable itself.
- Read the instruction manual of the equipment to be connected.

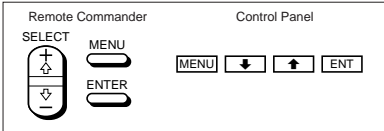


Using On-screen Menus

Operating Through Menus

Menu operating buttons

There are four buttons on the monitor and the Remote Commander for menu operations.

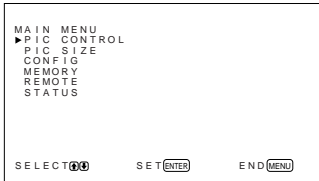


The buttons on the control panel are used for explanation purposes in this operating instructions. The ENTER button on the Remote Commander has the same function as the ENT button on the control panel and the SELECT + \uparrow / \downarrow buttons on the Remote Commander as same as the \uparrow / \downarrow buttons on the control panel.

Configuration of the menu

To select the language used in the menu, see page 31 (GB).

- 1** Press MENU.
The main menu appears on the monitor screen.



- 2** Press \uparrow / \downarrow to move the cursor (\blacktriangleright) and press ENT to select a menu.
The selected menu appears on the monitor screen.
- 3** Press \uparrow / \downarrow to move the cursor (\blacktriangleright) and press ENT to select an item.
The menu for the selected item appears on the monitor screen.

16 (GB)

- 4** Press \uparrow / \downarrow to adjust or select the setting and press ENT to set.
The setting is registered and the menu returns to the previous menu.

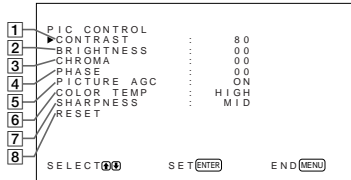
To return to the normal screen, press the MENU button repeatedly until the menu disappears.

Menu Guide

Note
“— — —” appears next to an item when its function is not available. The availability depends on the types of input signal.

PIC CONTROL menu

This menu is used for adjusting the picture.



- 1 CONTRAST**
Press \uparrow to increase the contrast and press \downarrow to decrease it.
- 2 BRIGHTNESS**
Press \uparrow to make the picture brighter and press \downarrow to make it darker.
- 3 CHROMA**
Press \uparrow to increase color saturation and press \downarrow to decrease it.
- 4 PHASE**
Press \uparrow to make the overall picture greenish and press \downarrow to make it purplish.
- 5 PICTURE AGC**
Select ON to automatically increase the brightness when a low brightness signal is input.
This function works only for LINE input or 15 kHz YUV input.

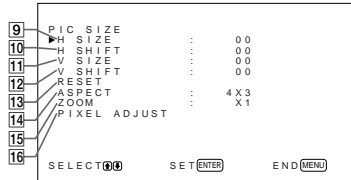
- 6 COLOR TEMP**
Changes color temperature.
For details, see “COLOR TEMP” on page 23 (GB).

- 7 SHARPNESS**
Changes the outline correction level in three levels (HIGH, MID or LOW).
For details, see “SHARPNESS” on page 24 (GB).

- 8 RESET**
Restores the factory settings in the PIC CONTROL menu items **1** to **7**.
For details on using the reset function, see “Restoring the PIC CONTROL Menu Items to Original Settings” on page 24 (GB).

PIC SIZE menu

This menu is used for resizing and positioning the picture.



- 9 H SIZE**
Adjusts the horizontal picture size. Press \uparrow to enlarge the horizontal size and press \downarrow to diminish it.
- 10 H SHIFT**
Adjusts the horizontal centering. Press \uparrow to move the picture to the right and press \downarrow to move it to the left.
- 11 V SIZE**
Adjusts the vertical picture size. Press \uparrow to enlarge the vertical size and press \downarrow to diminish it.
- 12 V SHIFT**
Adjusts the vertical centering. Press \uparrow to move the picture up and press \downarrow to move it down.
- 13 RESET**
Restores the factory settings in the PIC SIZE menu items **9** to **12**.
For details on using the reset function, see “Restoring the Original Picture Size and Position” on page 26 (GB).

- 14 ASPECT**
Sets the aspect ratio of the picture to 4:3, 16:9 or wide-zoom size.
For details on the wide-zoom, see “Enlarging a 4:3 Image to a 16:9 Screen Naturally (Wide Zoom Mode)” on page 27 (GB).

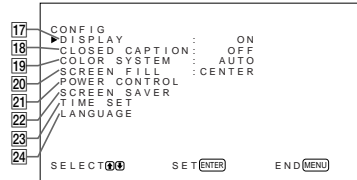
- 15 ZOOM**
Enlarges the image (in order) to double ($\times 2$), triple ($\times 3$) and quadruple ($\times 4$). You can also operate with the ZOOM button on the Remote Commander.

Note
When you use the wide zoom mode, set ZOOM to $\times 1$. If ZOOM is set to $\times 2$, $\times 3$ or $\times 4$, the wide zoom mode cannot be used.

- 16 PIXEL ADJUST**
Adjusts the dot phase and total number of horizontal pixels when you see noise on the edges of the characters and the vertical lines.
For details, see “Adjusting the Pixels” on page 28 (GB).

CONFIG menu

This menu is used for adjusting the signal or selecting the language.



- 17 DISPLAY**
Selects ON to display the input signal information for about five seconds at the top of the monitor screen when turning on the power or switching the input signal.
- 18 CLOSED CAPTION**
Displays closed captions.
For details, see “Displaying Closed Captions” on page 20 (GB).

17 (GB)

19 COLOR SYSTEM

Selects the input signal.

- AUTO:** to display NTSC, PAL or SECAM signals
- 443NT:** to display NTSC4.43 signals
- PAL60:** to display PAL60 signals

20 SCREEN FILL

Selects the point of origin for resizing the picture.

- CENTER:** Sets the point of origin on the center of the monitor.
- CORNER:** Sets the point of origin at the upper-left corner of the monitor.

21 POWER CONTROL

Sets the length of time until the system goes into the power saving mode.

For details, see “Controlling Power On/Off Automatically (Power Control Function)” on page 34 (GB).

22 SCREEN SAVER

Enables the screen saver to reduce afterimage or ghosting.

For details, see “Reducing Afterimage/Ghosting (Screen Saver Function)” on page 31 (GB).

23 TIME SET

Sets the time.

For details, see “Adjusting the time” on page 21 (GB).

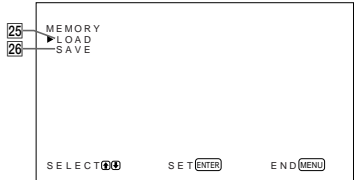
24 LANGUAGE

Selects the on-screen language (English, German, French, Italian, Spanish or Japanese).

For details, see “Selecting the On-screen Language” on page 31 (GB).

MEMORY menu

This menu is used for saving or recalling the settings in the PIC CONTROL and PIC SIZE menus.



For details, see “Using the Memory Function” on page 29 (GB).

25 LOAD

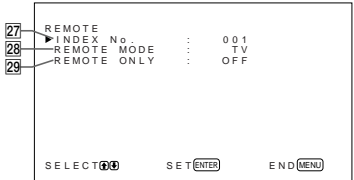
Recalls the preset settings.

26 SAVE

Saves the settings.

REMOTE menu

This menu is used for remote control settings.



27 INDEX No.

Sets the index number of the monitor.

Note

When you set the number, use the buttons on the monitor.

For details about the index number, see “Operating a Specific Monitor With the Remote Commander” on page 36 (GB).

28 REMOTE MODE

Selects the Remote Commander mode.

- TV:** The Sony monitors’ or the TVs’ commander
- PJ:** The Sony projectors’ commander
- OFF:** Disables the remote control.

Note

When you change the Remote Commander mode, use the buttons on the monitor. You cannot change the Remote Commander mode with the Remote Commander.

For details, see “Using Other Remote Commander Models” on page 38 (GB).

29 REMOTE ONLY

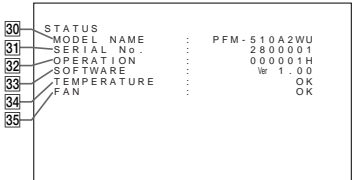
Select ON to disable the front control buttons on the monitor. The monitor can only be controlled with the Remote Commander. While REMOTE ONLY is ON, the indicators on the front panel go off.

To cancel the REMOTE ONLY mode, set REMOTE ONLY to OFF with the Remote Commander, or press the CTRL button while pressing the ⏻ switch on the monitor. The monitor turns to the standby mode and the REMOTE ONLY mode is cancelled.

The setting in this item is still retained when the AC power cord is disconnected or when you turn on/off the monitor with the Remote Commander.

STATUS menu

This menu is used for displaying the internal condition of the monitor.



30 MODEL NAME

Indicates the model name.

31 SERIAL No.

Indicates the serial number.

32 OPERATION

Indicates the total operation hours.

Note

The standby mode is not counted as part of the OPERATION time.

33 SOFTWARE

Indicates the system software version.

34 TEMPERATURE

Indicates whether the internal temperature of the monitor is normal.

- OK:** Normal
- NG:** Unusual

When the internal temperature is unusual, NG is displayed and the item flashes in red. The ⏻ indicator on the control panel also flashes.

Note

The “TEMPERATURE NG” message may appear when the ventilation holes are blocked or the monitor is installed in a poorly ventilated area. In this case, check that the ventilation holes are not blocked and install the monitor in a well ventilated area. If the message is still displayed, contact your authorized Sony dealer.

When the ⏻ indicator flashes or NG is indicated, see “Self-diagnosis Function” on page 36 (GB).

35 FAN

The cooling fans are built into this monitor. This item indicates whether the cooling fans work properly.

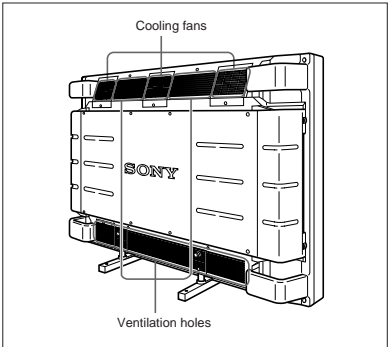
- OK:** Normal
- NG:** Unusual

When the cooling fans are not working normally, NG is displayed and the item flashes in red. The ⏻ indicator on the control panel also flashes.

Note

When the “FAN NG” message appears, contact your authorized Sony dealer.

When the ⏻ indicator flashes or NG is indicated, see “Self-diagnosis Function” on page 36 (GB).



Note

The upper cooling fans detect the monitor’s internal temperature and control the fan rotation. If the ambient temperature is high, the fan speed increases and the noise will be louder.

Watching the Picture

Before you start

- Turn on the monitor.
- Turn on the connected equipment and play a video source.
- To display the input signal information on the screen when turning on the power or switching the input signal, set "DISPLAY" in the CONFIG menu to ON.
- To select the on-screen language used in the menu, see page 31 (GB).

Switching the Input Signal

- 1 Press CTRL on the control panel of the monitor. The RGB1, YUV, RGB2, LINE, and Y/C buttons light up.
- 2 Select the input source to be displayed by pressing the following buttons.
 - RGB1:** Selects the audio and video signal input from the RGB1 connectors when the input signal is an RGB signal.
 - YUV:** Selects the audio and video signal input from the RGB1 connectors when the input signal is a component signal.
 - RGB2:** Selects the audio and video signal input from the RGB2 connectors.
 - LINE:** Selects the audio and video signal input from the VIDEO IN connector and AUDIO IN jack among the LINE connectors.
 - Y/C:** Selects the audio and video signal input from the Y/C IN connector and AUDIO IN jack among the LINE connectors.

Color system or horizontal/vertical frequency
Signal type



The selected input signal appears on the monitor screen.

You can also switch the input signal with the Remote Commander.

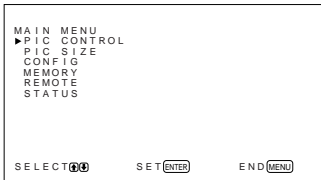
Note

We recommend input source video equipment equipped with a TBC (time base corrector). If the monitor receive a signal without TBC, the picture may disappear due to disturbance of the sync signal.

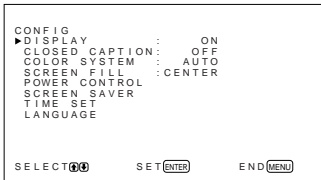
Switching the Display Mode

Displaying Closed Captions

- 1 Press MENU. The main menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to move the cursor (►) to "CONFIG" and press ENT. The CONFIG menu appears on the monitor screen.



- 3 Press \uparrow/\downarrow to move the cursor (►) to "CLOSED CAPTION" and press ENT. The following menu appears on the monitor screen.

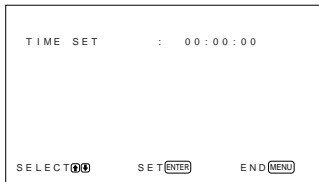


- 4 Select the caption type.
 - OFF:** The caption is not displayed.
 - CAPT1:** Displays caption1 over the picture.
 - CAPT2:** Displays caption2 over the picture.
 - TEXT1:** Displays caption1 against a black background.
 - TEXT2:** Displays caption2 against a black background.

- 5 Press MENU. The menu returns to the CONFIG menu.

Adjusting the time

- 1 In the CONFIG menu, press \uparrow/\downarrow to move the cursor (►) to "TIME SET" and press ENT. The following menu appears on the monitor screen.



- 2 Press ENT. The background of the hour is displayed in cyan.
- 3 Adjust the hour with \uparrow/\downarrow and press ENT. The hour is defined and the background of the minute is displayed in cyan.
- 4 Similarly, adjust the minute and press ENT. The minute is defined and the second is reset to 00.

To display the time, press the DISPLAY button on the Remote Commander. The time is displayed in the upper-right corner of the monitor.

Input Signal and Monitor Status Information Display

Input signal and monitor status information is displayed on the monitor screen for about five seconds when turning on the power or switching the input signal.

To disable this function, follow the steps below.

- 1 In the CONFIG menu, press \uparrow/\downarrow to move the cursor (►) to "DISPLAY" and press ENT. The following menu appears on the monitor screen.



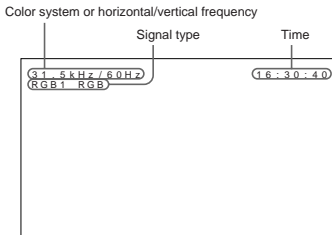
- 2 Press \uparrow/\downarrow to set DISPLAY to OFF and press ENT. The DISPLAY function is disabled.

To activate the information function, set DISPLAY to ON in step 2 above. The factory default is ON.

Note

You can display the input signal information and the time anytime by pressing the DISPLAY button on the Remote Commander, regardless of the above setting.

The input signal information list



Preset input signals			
	Signal name	Color system or horizontal/vertical frequency	
Computer signals			
1	VGA®-1 (VGA 350)	31.5kHz	70Hz
2	640×350@85Hz (VESA® STD)	37.9kHz	85Hz
3	640×400@85Hz (VESA STD)	37.9kHz	85Hz
4	640×480@60Hz (VESA STD)	31.5kHz	60Hz
5	Mac® 13"	35.0kHz	67Hz
6	640×480@72Hz (VESA STD)	37.9kHz	73Hz
7	640×480@75Hz (VESA STD)	37.5kHz	75Hz
8	640×480@85Hz (VESA STD)	43.3kHz	85Hz
9	VGA (VGA TEXT)	31.5kHz	70Hz
10	720×400@85Hz (VESA STD)	37.9kHz	85Hz
11	800×600@56Hz (VESA STD)	35.2kHz	56Hz
12	800×600@60Hz (VESA STD)	37.9kHz	60Hz
13	800×600@72Hz (VESA STD)	48.1kHz	72Hz
14	800×600@75Hz (VESA STD)	46.9kHz	75Hz
15	800×600@85Hz (VESA STD)	53.7kHz	85Hz
16	Mac 16"	49.7kHz	75Hz
17	1024×768@60Hz (VESA STD)	48.4kHz	60Hz
18	1024×768@70Hz (VESA STD)	56.5kHz	70Hz
19	1024×768@75Hz (VESA STD)	60.0kHz	75Hz
20	1024×768@85Hz (VESA STD)	68.7kHz	85Hz
21	1152×864@75Hz (VESA STD)	67.5kHz	75Hz
22	Mac 21"	68.7kHz	75Hz
23	1280×960@60Hz (VESA STD)	60.0kHz	60Hz
24	1280×960@85Hz (VESA STD)	85.9kHz	85Hz
25	1280×1024@60Hz (VESA STD)	64.0kHz	60Hz
26	1280×1024@75Hz (VESA STD)	80.0kHz	75Hz
27	1280×1024@85Hz (VESA STD)	91.1kHz	85Hz
28	1600×1200@60Hz (VESA STD)	75.0kHz	60Hz
SDTV/HDTV			
1	PAL	PAL	
2	NTSC	NTSC	
3	SECAM	SECAM	
4	NTSC4.43	NTSC/4.43	
5	PAL60	PAL/60	
6	1080/24psf	27.0kHz	48Hz
7	1080/50i	28.1kHz	50Hz
8	575/50p	31.3kHz	50Hz
9	480/60p	31.5kHz	60Hz
10	1080/60i	33.8kHz	60Hz
11	720/60p	45.0kHz	60Hz

- a) VGA is a registered trademark of International Business Machines Corporation, USA.
b) VESA is a registered trademark of the Video Electronics Standards Association.
c) Mac (Macintosh) is a registered trademark of Apple Computer, Inc.

Notes

- When inputting an HDTV signal, input the tri-level sync signal to the G (Y) IN connector.
- When inputting the computer signal shown in item No. 28, set the H SIZE, H SHIFT, V SIZE and V SHIFT to the standard (00) and set ZOOM to ×1 in the PIC SIZE menu, or the picture might oscillate.

Actual on-screen display of the monitor status

On-screen display	Significance
31.5kHz / 60Hz (eg.)	The selected input signal is computer RGB.
525 / 60 (eg.)	The selected input signal is RGB or component video.
NTSC (eg.)	The selected input signal is NTSC.
OTHERS	The input signal is out of the capture range.
NO SYNC	There is no input signal.
MUTING	The sound is muted.
RGB1 RGB	The signal mode of RGB1 is set to RGB.
RGB1 YUV	The signal mode of RGB1 is set to component video.
LINE COMPOSITE	Composite video input is selected at LINE.
LINE Y/C	Y/C video input is selected at LINE.

Adjusting the Picture

While watching the picture, you can adjust contrast, brightness, chroma, phase, and so on, to suit your taste. The adjustments can be carried out for each input signal separately. You can also store the adjusted levels in memory.

Adjusting the Contrast, Brightness, Chroma, and Phase, etc.

Press MENU so that the main menu appears on the monitor screen and select “CONTRAST”, “BRIGHTNESS”, “CHROMA”, “PHASE”, “PICTURE AGC”, “COLOR TEMP” or “SHARPNESS” from the PIC CONTROL menu with **↑/↓**.

CONTRAST

Select “CONTRAST” with **↑/↓** and press ENT. Adjust the contrast with **↑/↓** in the range from MIN (0) to MAX (+100).
↑: to increase picture contrast
↓: to decrease picture contrast

BRIGHTNESS

Select “BRIGHTNESS” with **↑/↓** and press ENT. Adjust the brightness with **↑/↓** in the range from MIN (–50) to MAX (+50).
↑: to make the picture brighter
↓: to make the picture darker

CHROMA

Select “CHROMA” with **↑/↓** and press ENT. Adjust the chroma with **↑/↓** in the range from MIN (–50) to MAX (+50).
↑: to increase color intensity
↓: to decrease color intensity

PHASE

Select “PHASE” with **↑/↓** and press ENT. Adjust the phase with **↑/↓** in the range from MIN (–50) to MAX (+50).
↑: to make overall picture greenish
↓: to make overall picture purplish

Automatic Brightness Control – Enhancing the Image Contrast

If the average brightness of the image is low, the system can automatically raise the contrast level to enhance the brightness. This function works well for displaying dark images.

Select “PICTURE AGC” with **↑/↓** and press ENT. Set PICTURE AGC to ON or OFF with **↑/↓**.

COLOR TEMP (Color Temperature)

Set the color temperature. You can select HIGH or LOW, or adjust each gain more precisely. Up to six adjusted color temperatures can be registered. You can rename them (up to six characters in length).

- 1 Select “COLOR TEMP” with **↑/↓** and press ENT.
- 2 Select the color temperature with **↑/↓** and press ENT.
HIGH: to set the color temperature to high
LOW: to set the color temperature to low
1 – 6: to set the gain more precisely

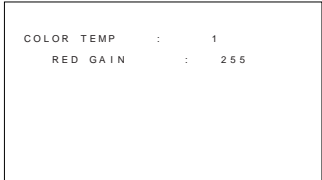
When you select HIGH or LOW, the menu returns to the PIC CONTROL menu.

When you select “1” to “6”
When you select “1” to “6”, the following menu appears on the monitor screen.

COLOR TEMP : 1			
RED GAIN	:	255	
GREEN GAIN	:	255	
BLUE GAIN	:	255	
NAME SET	:		
SELECT OK ADJUST ENTER END MENU			

Adjusting the Picture

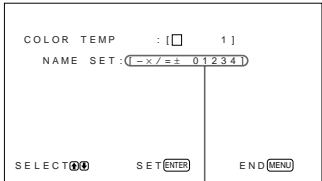
- (1) Select a number to register with \uparrow/\downarrow and press ENT.
The cursor (►) appears on the monitor screen.
- (2) Press \uparrow/\downarrow to move the cursor (►) to the gain that you want to set.
The following menu appears on the monitor screen.



- (3) Adjust the gain (10 to 255) with \uparrow/\downarrow and press MENU.
The menu returns to the COLOR TEMP menu.
- (4) Repeat steps (2) and (3) to set the other gains and press MENU.
The menu returns to the COLOR TEMP menu.

When you rename the adjusted color temperature, follow the steps below.

- (5) Press \uparrow/\downarrow to move the cursor (►) to "NAME SET" and press ENT.
The following menu appears on the monitor screen.



Character list

- (6) Select the character to be changed with \uparrow/\downarrow and press ENT.
The background of one character in the character list changes to cyan.

- (7) Select a character in the character list with \uparrow/\downarrow and press ENT.
The selected character is input.
- (8) Repeat steps (6) and (7) until you finish inputting the name, then press MENU.
The menu returns to the COLOR TEMP menu.

SHARPNESS

Change the outline correction level in three levels (HIGH, MID or LOW).

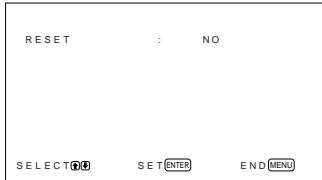
- 1 Press \uparrow/\downarrow to move the cursor (►) to "SHARPNESS" and press ENT.
- 2 Select the outline correction level with \uparrow/\downarrow and press ENT.
HIGH: sharper picture
MID: standard value
LOW: softer picture

Notes

- CHROMA and PHASE controls do not function with an RGB signal.
- PHASE control does not function with a component signal.
- PHASE control does not function with a PAL or SECAM color source.
- Do not change the CHROMA/PHASE (NTSC only) level when the selected signal is black-and-white. Although it has no effect on the current picture, it does affect the picture of color signals such as NTSC or PAL which may be input later.

Restoring the PIC CONTROL Menu Items to Original Settings

- 1 In the PIC CONTROL menu, Press \uparrow/\downarrow to move the cursor (►) to "RESET" and press ENT.
The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow .
"NO" changes to "YES".



- 3 Press ENT.
The PIC CONTROL menu items are restored.

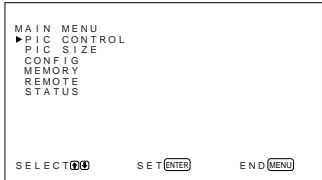
To cancel the reset function, press MENU before pressing ENT.

Resizing and Positioning the Picture

You can shift the position of the picture so that it fits the screen, or adjust the vertical and horizontal size of the picture separately. You can adjust the setting to display the 4:3 image at the more natural 16:9 setting.

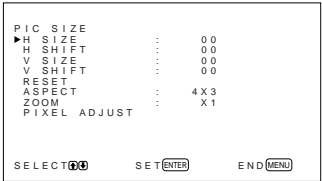
Resizing the Picture

- 1 Press MENU.
The main menu appears on the monitor screen.

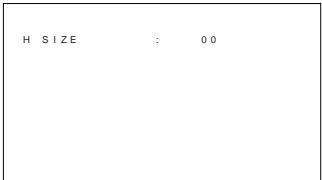


Adjusting the Picture / Resizing and Positioning the Picture

- 2 Press \uparrow/\downarrow to move the cursor (►) to "PIC SIZE" and press ENT.
The PIC SIZE menu appears on the monitor screen.



- 3 Press \uparrow/\downarrow to move the cursor (►) to "H SIZE" and press ENT.
The following menu appears on the monitor screen.



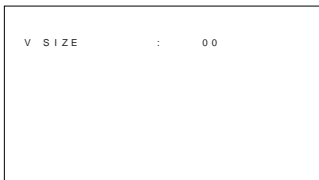
- 4 Press \uparrow/\downarrow to resize the picture.
 \uparrow : to expand horizontal size
 \downarrow : to reduce horizontal size
The horizontal picture size is indicated on the monitor screen in the range from MIN (–50) to MAX (+50). The factory preset value is 00.

Note

The lower limit of the setting may be above the MIN depending on the input signal type.

- 5 Press ENT.
The menu returns to the PIC SIZE menu.

- 6 Press \uparrow/\downarrow to move the cursor (►) to “V SIZE” and press ENT.
The following menu appears on the monitor screen.

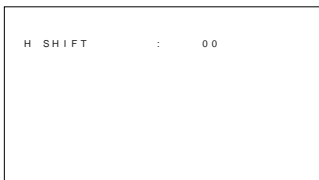


- 7 Press \uparrow/\downarrow to resize the picture.
 \uparrow : to expand vertical size
 \downarrow : to reduce vertical size
The vertical picture size is indicated on the monitor screen from MIN (–50) to MAX (+50). The factory preset value is 00.

- 8 Press ENT.
The menu returns to the PIC SIZE menu.

Adjusting the Picture Position

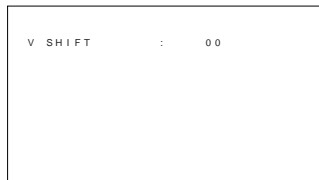
- 1 In the PIC SIZE menu, press \uparrow/\downarrow to move the cursor (►) to “H SHIFT” and press ENT.
The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to shift the picture.
 \uparrow : to shift the picture to the right
 \downarrow : to shift the picture to the left
The horizontal picture position is indicated on the monitor screen from MIN (–50) to MAX (+50). The factory preset value is 00.

- 3 Press ENT.
The menu returns to the PIC SIZE menu.

- 4 Press \uparrow/\downarrow to move the cursor (►) to “V SHIFT” and press ENT.
The following menu appears on the monitor screen.

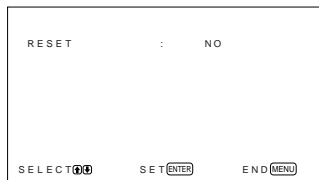


- 5 Press \uparrow/\downarrow to shift the picture.
 \uparrow : to shift the picture upward
 \downarrow : to shift the picture downward
The vertical picture position is indicated on the monitor screen from MIN (–50) to MAX (+50). The factory preset value is 00.

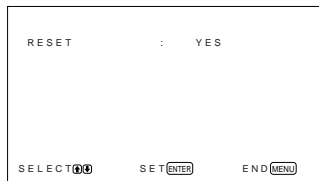
- 6 Press ENT.
The menu returns to the PIC SIZE menu.

Restoring the Original Picture Size and Position

- 1 In the PIC SIZE menu, press \uparrow/\downarrow to move the cursor (►) to “RESET” and press ENT.
The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow .
“NO” changes to “YES”.

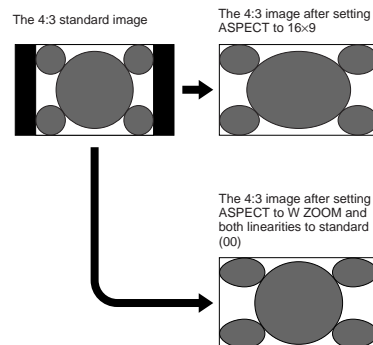


- 3 Press ENT.
The original picture size and position are restored.

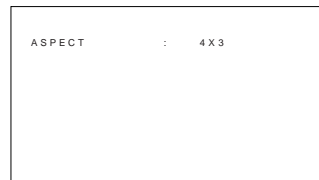
To cancel the reset function, press MENU before pressing ENT.

Enlarging a 4:3 Image to a 16:9 Screen Naturally (Wide Zoom Mode)

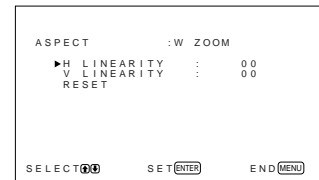
When you ordinarily watch a 4:3 standard image in the 16:9 screen, the image is seen distorted in a horizontal direction due to the difference in proportion. If you use wide zoom mode, the center of the monitor will not be distorted as much and the corners of the monitor will be distorted instead. You can change the linearities by adjusting the H LINEARITY and V LINEARITY settings.



- 1 In the PIC SIZE menu, press \uparrow/\downarrow to move the cursor (►) to “ASPECT” and press ENT.
The following menu appears on the monitor screen.



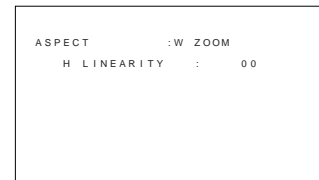
- 2 Press \uparrow/\downarrow to move the cursor (►) to “W ZOOM” and press ENT.
The following menu appears on the monitor screen.



- 3 If you do not change H LINEARITY or V LINEARITY, press ENT.
The menu returns to the PIC SIZE menu. When you change H LINEARITY or V LINEARITY, follow the steps below.

- 4 Press \uparrow/\downarrow to move the cursor (►) to “H LINEARITY” or “V LINEARITY” and press ENT.
H LINEARITY: to change the linearity in the horizontal direction
V LINEARITY: to change the linearity in the vertical direction

The following menu appears on the monitor screen. (The illustration below is for selecting the H LINEARITY.)



- 5 Adjust the screen size with \uparrow/\downarrow .

To restore wide zoom mode items to their original settings

In the ASPECT menu, select W ZOOM and press ENT. Press \uparrow/\downarrow to move the cursor (►) to “RESET” and press ENT. Then select YES with \uparrow/\downarrow and press ENT.

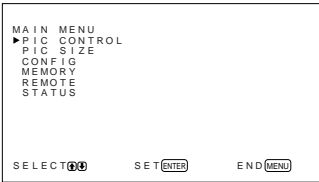
Note

If you use the wide zoom mode, it is recommended that you set the H SIZE, H SHIFT, V SIZE and V SHIFT to the standard (00) . If you change them too much, the wide zoom display may be distorted. Before you use the wide zoom mode, set ZOOM to $\times 1$. If ZOOM is set to $\times 2$, $\times 3$ or $\times 4$, the wide zoom mode cannot be used.

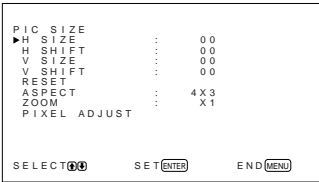
Adjusting the Pixels

If there is too much noise on the edges of the characters or the vertical lines, you can adjust the dot phase and total number of horizontal pixels.

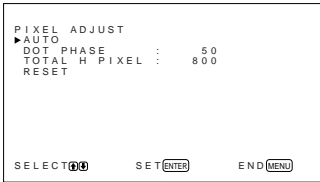
- 1 Press **MENU**.
The main menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to “PIC SIZE” and press **ENT**.
The PIC SIZE menu appears on the monitor screen.



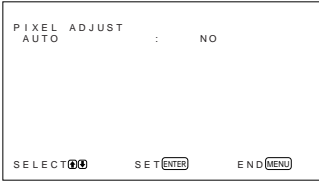
- 3 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to “PIXEL ADJUST” and press **ENT**.
The following menu appears on the monitor screen.



- 4 You can adjust the dot phase and total number of horizontal pixels automatically or manually.

Adjusting automatically

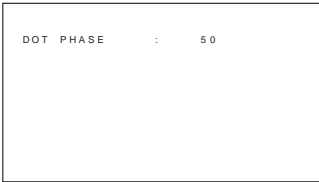
- (1) Select **AUTO** with \uparrow/\downarrow and press **ENT**.
The following menu appears on the monitor screen.



- (2) Select **YES** with \uparrow/\downarrow and press **ENT**.
The dot phase and total number of horizontal pixels are adjusted automatically.

Adjusting manually

- (1) Select **DOT PHASE** or **TOTAL H PIXEL** with \uparrow/\downarrow and press **ENT**.
The following menu appears on the monitor screen. (The illustration below is for selecting the **DOT PHASE**.)



- (2) Adjust the dot phase or total number of horizontal pixels with \uparrow/\downarrow and press **ENT**.

To restore PIXEL ADJUST menu items to their original settings

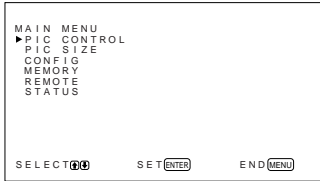
In the **PIXEL ADJUST** menu, press \uparrow/\downarrow to move the cursor (\blacktriangleright) to “**RESET**” and press **ENT**. Then select **YES** with \uparrow/\downarrow and press **ENT**.

Using the Memory Function

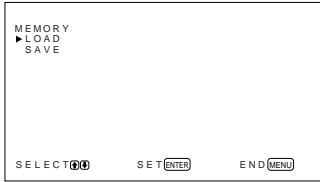
You can save the current picture setting for each input signal using the **MEMORY** function. The saved settings can be restored whenever necessary. The items in the **PIC CONTROL** and **PIC SIZE** menus can be memorized. You can save the picture settings of up to twenty input signals. You can name the settings of the items (up to 10 characters in length).

Storing the Current Setting

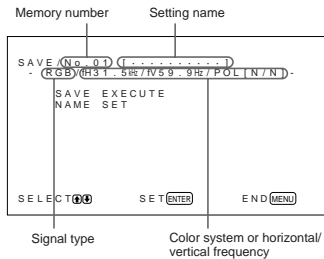
- 1 Press **MENU**.
The main menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to “**MEMORY**” and press **ENT**.
The **MEMORY** menu appears on the monitor screen.



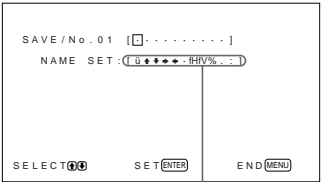
- 3 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to “**SAVE**” and press **ENT**.
The following menu appears on the monitor screen.



If there is no data in the selected memory number, the “— EMPTY —” message appears on the monitor screen in cyan. The signal type and the color system or horizontal/vertical frequency are displayed in cyan (showing that the signal type of the selected memory number is the same as that of the current setting) or in yellow (showing that the signal type of the selected memory number is not the same as that of the current setting).

- 4 Select a memory number (01 to 20) with \uparrow/\downarrow and press **ENT**.
The cursor (\blacktriangleright) appears on the monitor screen.
- 5 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to “**SAVE EXECUTE**” and press **ENT**.
The current data is stored under the selected memory number. The “**SAVE COMPLETED**” message appears for about five seconds. When you name the setting, follow the steps below.

- 6 Press **↑/↓** to move the cursor (▶) to “NAME SET” and press ENT. The following menu appears on the monitor screen.



Character list

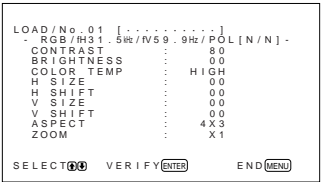
- 7 Select the character to be changed with **↑/↓** and press ENT. The background of a character in the character list changes to cyan.
- 8 Select a character in the character list with **↑/↓** and press ENT. The selected character is input.
- 9 Repeat steps 7 and 8 until you finish inputting the name, then press MENU. The menu returns to the SAVE menu.

Note

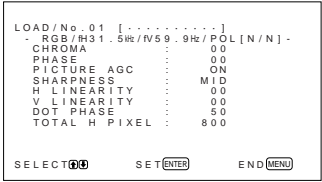
If the storing of the setting fails, the “SAVE ERROR” message appears on the monitor screen. Try to store the setting again.

Calling Up a Stored Setting

- 1 In the MEMORY menu, press **↑/↓** to move the cursor (▶) to “LOAD” and press ENT. The first page of the stored settings appears on the monitor screen.



- 2 Select a memory number (01 to 20) with **↑/↓** and press ENT. The second page of the stored settings appears on the monitor screen.



The signal type and the color system or horizontal/vertical frequency are displayed in cyan (showing that the signal type of the selected memory number is the same as that of the current setting and you can call up the stored setting) or in red (showing that the signal type of the selected memory number is not the same as that of the current setting and you cannot call up the stored setting).

- 3 Press ENT. The “LOAD COMPLETED” message appears for about five seconds and the picture is adjusted to the selected setting.

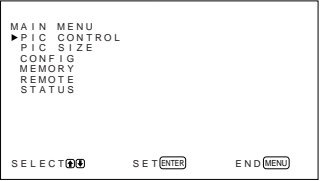
Note

If the loading fails, the “LOAD ERROR” message appears on the monitor screen. Try to load the setting again.

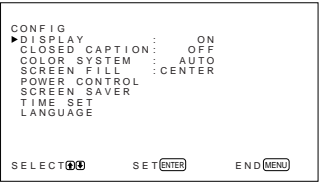
Selecting the On-screen Language

You can select the on-screen language from among English, German, French, Italian, Spanish or Japanese.

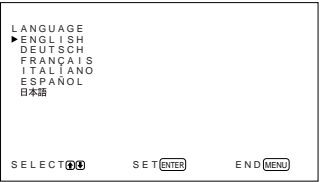
- 1 Press MENU. The main menu appears on the monitor screen.



- 2 Press **↑/↓** to move the cursor (▶) to “CONFIG” and press ENT. The CONFIG menu appears on the monitor screen.



- 3 Press **↑/↓** to move the cursor (▶) to “LANGUAGE” and press ENT. The following menu appears on the monitor screen.



- 4 Press **↑/↓** to move the cursor (▶) to the desired language and press ENT. The on-screen language is switched to the one you selected.
- ENGLISH:** English
DEUTSCH: German
FRANCAIS: French
ITALIANO: Italian
ESPAÑOL: Spanish
日本語: Japanese

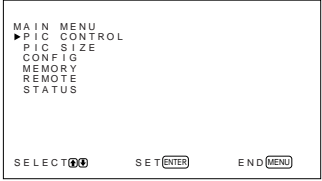
- 5 Press MENU. The menu returns to the CONFIG menu.

Reducing Afterimage/Ghosting (Screen Saver Function)

If a bright image that does not change is displayed on a screen (e.g., PC) for a long time, an afterimage (ghosting) may occur. To reduce this afterimage, this monitor has a screen saver function. The screen saver function has two screen savers. One screen saver reverses the image (PIC INVERSION) while the other automatically changes the display position (PIC ORBITING).

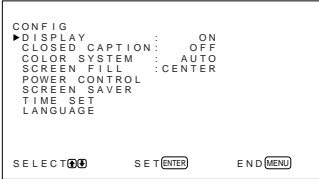
Reversing the Image

- 1 Press MENU. The main menu appears on the monitor screen.

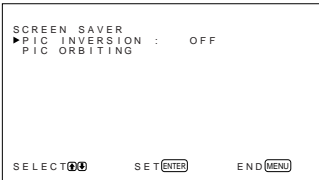


Reducing Afterimage/Ghosting (Screen Saver Function)

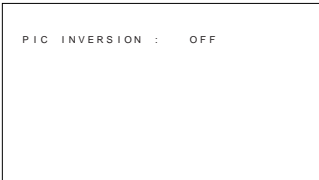
- Press \uparrow/\downarrow to move the cursor (►) to “CONFIG” and press ENT.
The CONFIG menu appears on the monitor screen.



- Press \uparrow/\downarrow to move the cursor (►) to “SCREEN SAVER” and press ENT.
The following menu appears on the monitor screen.

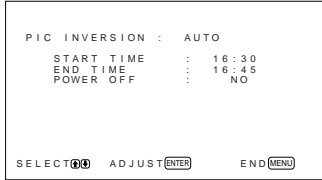


- Press \uparrow/\downarrow to move the cursor (►) to “PIC INVERSION” and press ENT.
The following menu appears on the monitor screen.

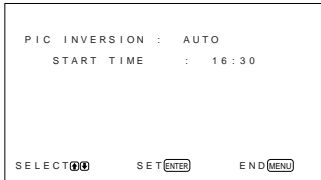


- Select the PIC INVERSION mode.
OFF: to set the PIC INVERSION to OFF
ON: to set the PIC INVERSION to ON
AUTO: Carry out the PIC INVERSION process once a day.

When you select AUTO, the following menu appears.



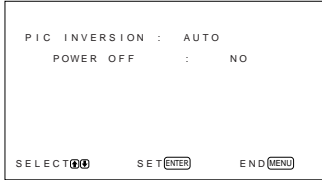
- Press ENT.
The cursor (►) appears on the monitor screen.
- Press \uparrow/\downarrow to move the cursor (►) to “START TIME” and press ENT.
The following menu appears and the background of the hour is displayed in cyan.



- Set the hour when the image is to be reversed with \uparrow/\downarrow and press ENT.
The hour is defined and the background of the minute is displayed in cyan.
- Set the minute with \uparrow/\downarrow and press MENU.
The minute is defined and the menu returns to the PIC INVERSION menu.
- Similarly, set the time when the PIC INVERSION function is to be cancelled.
The display will be reversed at the START TIME and will return to the original display at the END TIME. This cycle is carried out automatically once a day.

To set the change to the standby mode at the END TIME

- After selecting AUTO for PIC INVERSION mode, select POWER OFF and press ENT.
The following menu appears on the monitor screen.



- Select YES with \uparrow/\downarrow and press MENU.
The monitor changes to standby mode at the designated END TIME.

Notes

- The power off function, power saving function and on/off timer function in the POWER CONTROL menu cannot be used simultaneously. When one of those functions is set to YES, “— — —” appears next to the others and their functions are not available.
- If you set START TIME and END TIME to the same time, the setting of START TIME takes priority over that of END TIME. The display does not return to the original display at the END TIME.

Changing the Display Position Automatically

- In the SCREEN SAVER menu, press \uparrow/\downarrow to move the cursor (►) to “PIC ORBITING” and press ENT.
The following menu appears on the monitor screen.



Reducing Afterimage/Ghosting (Screen Saver Function)

- Press \uparrow/\downarrow to move the cursor (►) to “ORBITING” and press ENT.
The following menu appears on the monitor screen.



- Select the ORBITING mode with \uparrow/\downarrow .
OFF: Cancel the PIC ORBITING function.
ON: Set the PIC ORBITING function.
- Press MENU.
The menu returns to the PIC ORBITING menu.

- Select ORBIT RANGE (moving distance) or ORBIT CYCLE (time) with \uparrow/\downarrow and press ENT.
The following values can be selected:
ORBIT RANGE: 5dot, 10dot, 15dot, 20dot
ORBIT CYCLE: 10sec, 30sec, 1min, 5min

The following menu appears on the monitor screen. (The illustration below is for selecting ORBIT RANGE.)



- Adjust the ORBIT RANGE or ORBIT CYCLE with \uparrow/\downarrow and press MENU.

When both PIC INVERSION and PIC ORBITING are set to ON

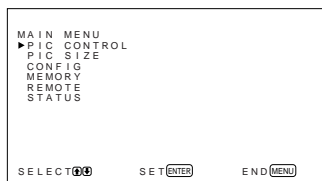
If the PIC ORBITING function is actuated while the picture is reversed, the reversed picture is displayed changing position.

Controlling Power On/Off Automatically (Power Control Function)

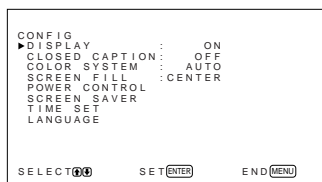
This monitor has two power controlling functions. You can set it to turn off the power automatically after a certain period if there is no input signal from the RGB1 or RGB2 connectors (POWER SAVING function). You can set the time when the power automatically turns on/off (ON/OFF TIMER function).

Power Saving Function

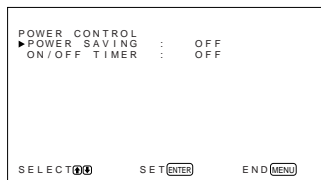
- 1 Press MENU.
The main menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to move the cursor (►) to "CONFIG" and press ENT.
The CONFIG menu appears on the monitor screen.



- 3 Press \uparrow/\downarrow to move the cursor (►) to "POWER CONTROL" and press ENT.
The following menu appears on the monitor screen.



- 4 Press \uparrow/\downarrow to move the cursor (►) to "POWER SAVING" and press ENT.
The following menu appears on the monitor screen.



- 5 Press \uparrow/\downarrow to select the length of the time until the change to power saving mode.
OFF: The power saving function does not work.
5min: Change to the power saving mode after five minutes if there is no input signal.
10min: Change to the power saving mode after 10 minutes if there is no input signal.

The power indicator flashes when the unit is in the power saving mode.

To cancel the power saving function

- Input the sync signal again.
- Press the \odot switch on the control panel or the POWER switch on the Remote Commander.

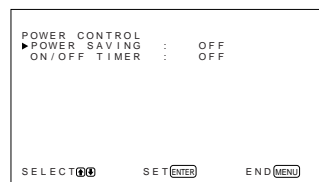
Signal specification for using the power saving function

RGB1: When the sync signal is connected to the HD/COMP IN connector.

RGB2: When the sync signal is connected to the 13th pin of the RGB IN (D-sub 15-pin) connector.

On/Off Timer Function

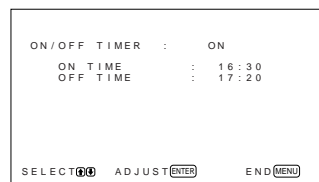
- 1 In the CONFIG menu, Press \uparrow/\downarrow to move the cursor (►) to "POWER CONTROL" and press ENT.
The following menu appears on the monitor screen.



- 2 Press \uparrow/\downarrow to move the cursor (►) to "ON/OFF TIMER" and press ENT.
The following menu appears on the monitor screen.

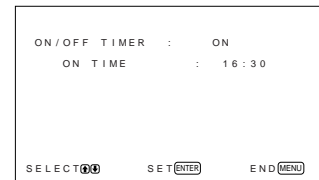


- 3 Select ON with \uparrow/\downarrow and press ENT.
The following menu appears on the monitor screen.



- 4 Press ENT.
The cursor (►) appears on the monitor screen.

- 5 Press \uparrow/\downarrow to move the cursor (►) to "ON TIME" and press ENT.
The following menu appears and the background of the hour is displayed in cyan.





- 6 Set the hour with \uparrow/\downarrow and press ENT.
The hour is defined and the background of the minute is displayed in cyan.
- 7 Set the minute with \uparrow/\downarrow and press MENU.
The minute is defined and the menu returns to the ON/OFF TIMER menu.
- 8 Similarly, set the OFF TIME.

Notes

- The power saving function does not work when the signal is input from the LINE connectors.
- If the sync signal is not connected to the HD/COMP IN connector, the monitor does not turn on even if the sync signal is input. Be sure to set POWER SAVING to OFF when only the RGB signal is connected.
- If the sync signal is not connected to the 13th pin of the RGB IN (D-sub 15-pin) connector, the monitor does not turn on even if the sync signal is input. Be sure to set POWER SAVING to OFF when only the RGB signal is connected.
- The power saving function, on/off timer function and power off function in the PIC INVERSION mode cannot be used simultaneously. When one of those functions is set to ON, "—" appears next to the others and their functions are not available.
- If you set ON TIME and OFF TIME to the same time, the setting of ON TIME takes priority over that of OFF TIME. The monitor does not turn off at the OFF TIME.

Self-diagnosis Function

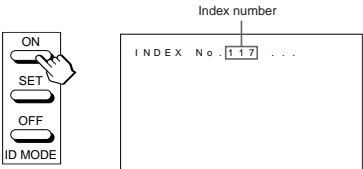
The unit has a self-diagnosis function. This function displays the monitor's condition with the  indicator flashing and numbers on the SERVICE CODE indicator on the left connector panel. The numbers inform you of the monitor's current condition. When the unit is working properly, only the dot at the lower-right position on the SERVICE CODE indicator flashes. If the  indicator flashes, check the number and contact your authorized Sony dealer.

- 1 Check the two-digit number on the SERVICE CODE indicator. The indicator shows one number, or multiple numbers alternately in one second intervals.
- 2 Unplug the unit. Inform your authorized Sony dealer of the number.

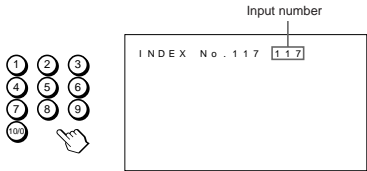
Operating a Specific Monitor With the Remote Commander

Using the supplied Remote Commander, you can operate a specific monitor without affecting other monitors that are installed at the same time.

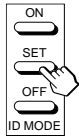
- 1 Press ID MODE ON on the Remote Commander. Monitor index numbers appear in white characters on all the monitors. (Every monitor is allocated an individual preset index number from 1 to 255.) See "To change the index number" in the left-hand column on the next page to change the index number.



- 2 Input the index number of the monitor you want to operate using the 0 – 9 buttons on the Remote Commander. The input number appears right next to the index number of each monitor.

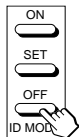


- 3 Press ID MODE SET. The character on the selected monitor changes to cyan while others change to red.



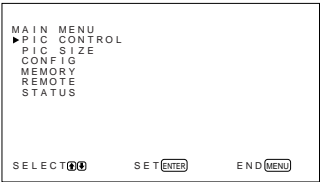
You can operate only the monitor specified. (All operations are available in ID mode except POWER ON/OFF.)



- 4 After the necessary adjustment, press ID MODE OFF. The monitor returns to the normal mode.

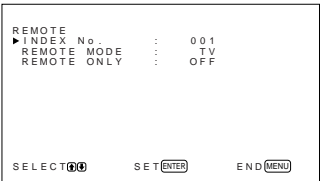




To change the index number
You can change the index number if necessary. When you change the number, use the buttons on the monitor.

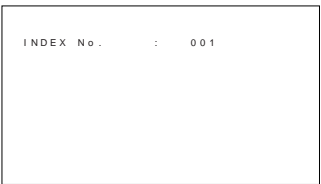
- 1 Press MENU. The main menu appears on the monitor screen.



- 2 Press   to move the cursor (▶) to "REMOTE" and press ENT. The REMOTE menu appears on the monitor screen.



- 3 Press   to move the cursor (▶) to "INDEX No." and press ENT. The following menu appears on the monitor screen.



Using Other Remote Commander Models

The following operations can be carried out.

- Power on/off
- Input selection
- Menu operations
- Picture adjustments: contrast, phase and chroma
- On-screen display on/off

The operations available and the buttons to be used for each operation are limited depending on each Remote Commander. See the table below.

Remote Commander model		RM-854	RM-1271	RM-PJ1292	RM-PJ1000
REMOTE MODE setting		TV	PJ	PJ	PJ
Input selection	RGB1	RGB	A	A	A
	RGB2	—	B	B	B
	LINE	LINE1	VIDEO	VIDEO	VIDEO
Menu operation	MENU	MENU	PAGE or ←	PAGE or ←	MENU or ←
	ENTER	ENTER	→	→	ENTER or →
	+	+	↑	↑	↑
	–	–	↓	↓	↓
Picture adjustment	Contrast	CONTRAST+/-	CONTR+/-	CONTR+/-	CONTR+/-
	Chroma	CHROMA+/-	COLOR+/-	COLOR+/-	COLOR+/-
	Phase	PHASE+/-	HUE+/-	HUE+/-	HUE+/-
On-screen information		DISPLAY	—	STATUS ON	STATUS ON

Specifications

Video processing

Preset signal	Input: formats (See page 22 (GB).)
Sampling rate	13.5 to 140 MHz
Panel system	AC-type Plasma Display Panel
Display resolution	510A2W: 1 024 dots × 1 024 lines 500A3W: 852 dots × 480 lines
Pixel pitch	510A2W: 0.90 (horizontal) × 0.51 (vertical) mm ($\frac{1}{16} \times \frac{1}{32}$ inches) 500A3W: 1.08 (horizontal) × 1.08 (vertical) mm ($\frac{1}{16} \times \frac{1}{16}$ inches)
Picture size	510A2W: 921 (horizontal) × 522 (vertical) mm ($36 \frac{3}{4} \times 20 \frac{3}{4}$ inches) 500A3W: 920 (horizontal) × 518 (vertical) mm ($36 \frac{1}{4} \times 20 \frac{1}{2}$ inches)
Panel size	510A2W: 42-inch (diagonal 1 058 mm) 500A3W: 42-inch (diagonal 1 056 mm)

Inputs and Outputs

RGB1

R (R-Y)/ G (Y)/B (B-Y) IN	BNC-type (×3)
	0.714 Vp-p/non-composite 75-ohm (automatic termination)
	1 Vp-p/composite 75-ohm (automatic termination)
SYNC IN (HD/COMP, VD)	BNC-type (×2)
	H (or composite) SYNC, V SYNC, 1 to 5 Vp-p high impedance
	AUDIO IN (L, R) Phono jack (×2) 500 mVrms, high impedance

R (R-Y)/ G (Y)/B (B-Y) OUT	BNC-type (×3) Loop-through
	SYNC OUT (HD/COMP, VD)
	BNC-type (×2) Loop-through H (or composite) SYNC, V SYNC
AUDIO OUT (L, R)	Phono jack (×2) Loop-through

RGB2

RGB IN	D-sub 15-pin (See “Pin assignment” on page 40 (GB).)
AUDIO IN (L, R)	Phono jack (×2)
	500 mVrms, high impedance

LINE (NTSC, PAL, SECAM, NTSC4.43, PAL60)

VIDEO IN	BNC-type (×1)
	Composite video, 1 Vp-p ±2 dB sync negative, 75-ohm (automatic termination)
	Y/C IN Mini DIN 4-pin type (×1)
Y/C IN	Y (luminance): 1 Vp-p ±2 dB sync negative, 75-ohm (automatic termination)
	C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC), 75-ohm (automatic termination)
	Burst 0.3 Vp-p ±2 dB (PAL), 75-ohm (automatic termination)
AUDIO IN (L, R)	Phono jack (×2)
	500 mVrms, high impedance

VIDEO OUT	BNC-type (×1) Loop-through
Y/C OUT	Mini DIN 4-pin type (×1) Loop-through

AUDIO OUT (L, R)	Phono jack (×2) Loop-through
------------------	------------------------------

MONITOR OUT AUDIO (L, R)	Phono jack (×2)
	Maximum 500 mVrms (Variable output), high impedance

CONTROL S (IN, OUT)	Mini jack (stereo) (×2)
---------------------	-------------------------

REMOTE (RS-232C)	5 Vp-p
------------------	--------

SPEAKERS	Mini DIN 8-pin type (×1)
----------	--------------------------

6 to 16 ohms, 7 W + 7 W (when the impedance is 8 ohms)

Specifications

General

Power requirements

510A2W: 100 to 120 V AC,
50/60 Hz, 4.7 A/410 W
220 to 240 V AC, 50/60 Hz,
2.2 A/400 W
500A3W: 100 to 120 V AC,
50/60 Hz, 3.9 A/380 W
220 to 240 V AC, 50/60 Hz,
2.0 A/360 W

Operating conditions

Temperature: 0 °C to 35 °C
(32 °F to 95 °F)
Humidity: 20% to 90%
(no condensation)
Atmospheric pressure: 700 to
1 060 hPa

Storing/transporting conditions

Temperature: -10 °C to +40 °C
(14 °F to 104 °F)
Humidity: 20% to 90%
(no condensation)
Atmospheric pressure: 700 to
1 060 hPa

Dimensions

1 036 × 636 × 152 mm
(40 7/8 × 25 1/8 × 6 inches) (w/h/d)

Mass

45 kg (99 lb 3 oz)

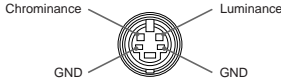
Supplied accessories

AC power cord (1)
AC plug holder (1)
Remote Commander RM-921 (1)
Size AA (R6) batteries (2)
Ferrite core (2)
Foot support bracket (2)
Screws for foot support bracket (6)
Monitor stabilizer (2)
Operating instructions (1)

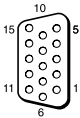
Design and specifications are subject to change
without notice.

Pin assignment

Y/C jack (Mini DIN 4-pin)



RGB IN connector (D-sub 15-pin)



Pin No.	Signal
1	Red video or R-Y
2	Green video or Y
3	Blue video or B-Y
4	Ground
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	Not used
10	Ground
11	Ground
12	SDA
13	H sync or composite sync
14	V sync
15	SCL

This section is reprinted
from operation manual.

1-2. MB-514 Operating Instructions

3-864-657-03(1)

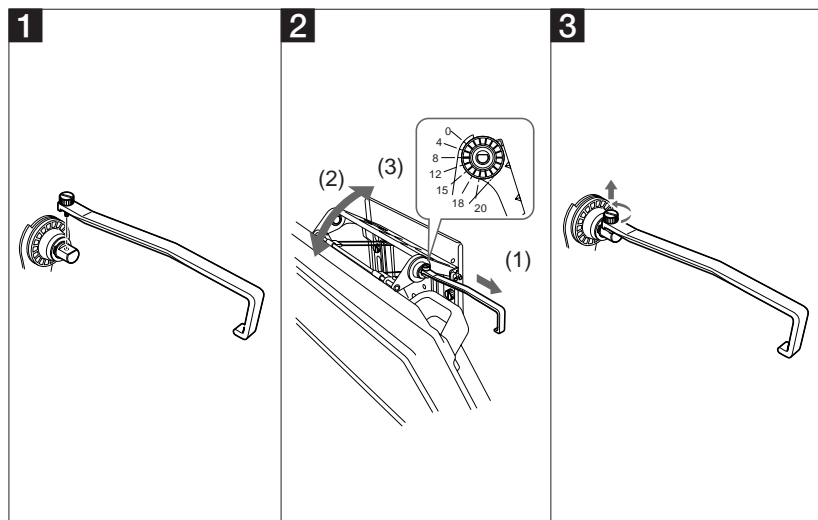
SONY®
Mounting Bracket

Operating Instructions

MB-514

© 1998 by Sony Corporation Printed in Japan

Changing the Angle of the Monitor



English

You can change the angle of the monitor panel by adjusting the angle of the mounting bracket.

Note

If you have any questions about installing the mounting bracket, contact your authorized Sony dealer.

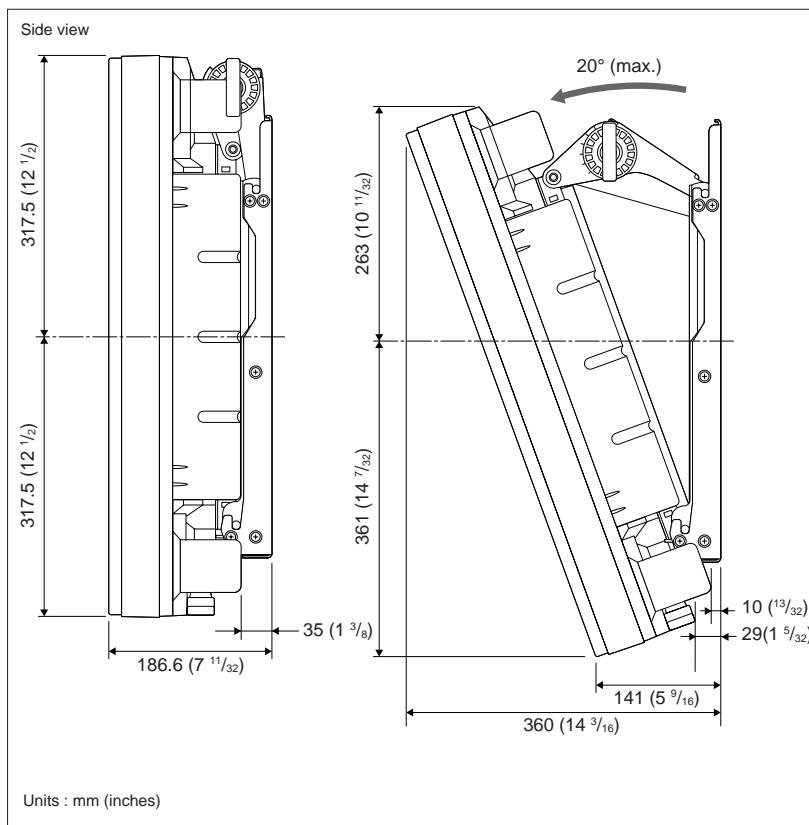
- 1** Attach the handle on the mounting bracket with the supplied screw (provided with the handle).
- 2** Adjust the monitor panel angle.
You can change the angle from 0° to 20° (7 levels).
(Approx. 0°, 4°, 8°, 12°, 15°, 18° and 20°)
(1) Pull the handle down to unsnap the lock.
(2) Push the panel to the desired angle.
(3) Let go of the handle and adjust the panel angle so it can be locked.

See the angle marks.

- 3** Remove the handle.

Store the handle with the Operating Instructions.

Dimensions of the assembled bracket



Design and specifications are subject to change without notice.

This section is reprinted
from installation manual.

1-3. MB-514 Installation Manual for Dealers

3-864-658-04(1)

SONY®

Mounting Bracket

Installation Manual for Dealers

MB-514

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WARNING

Install the monitor on a wall that can hold a weight of at least 400kg (881lb14 oz). Reinforce the wall, if needed.

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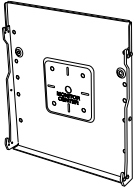
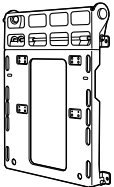
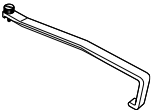


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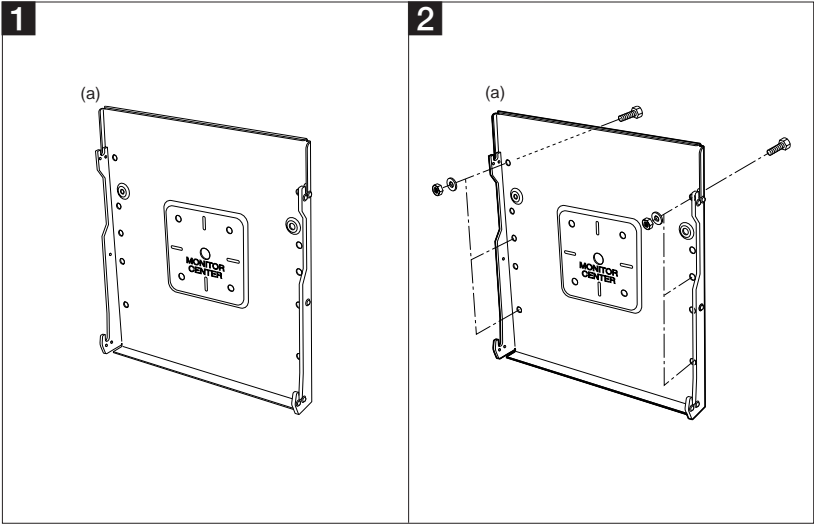
Overview

The mounting bracket MB-514 is designed to install the Sony flat panel monitor on a wall.

Parts List

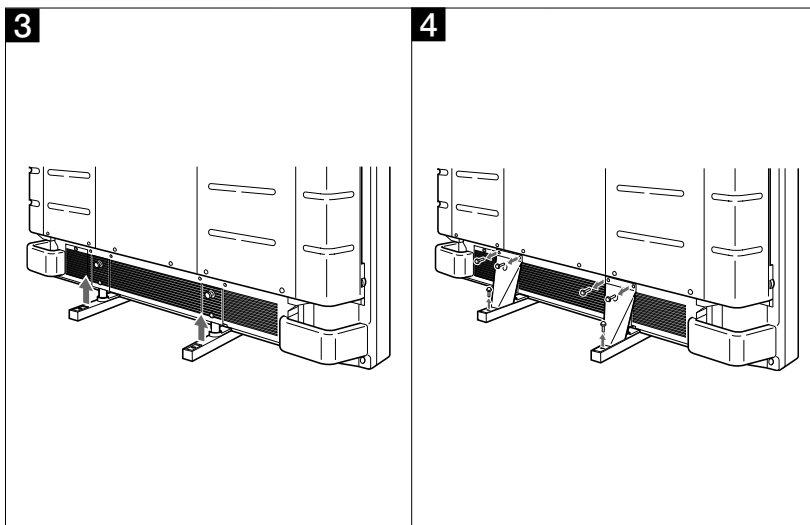
(a)	Wall bracket (1)	
(b)	Mounting bracket (1)	
(c)	Handle (1)	
(d)	Knob (2)	
(e)	Screw M5 (8)	

Installation



English

- 1 Decide where on the wall you want to install the wall bracket (a).
The center hole of the wall bracket will be matched the center of the monitor panel.
- 2 Install the wall bracket (a) on the wall.
Use six M8 bolts or concrete anchors, six nuts and six washers (not supplied).



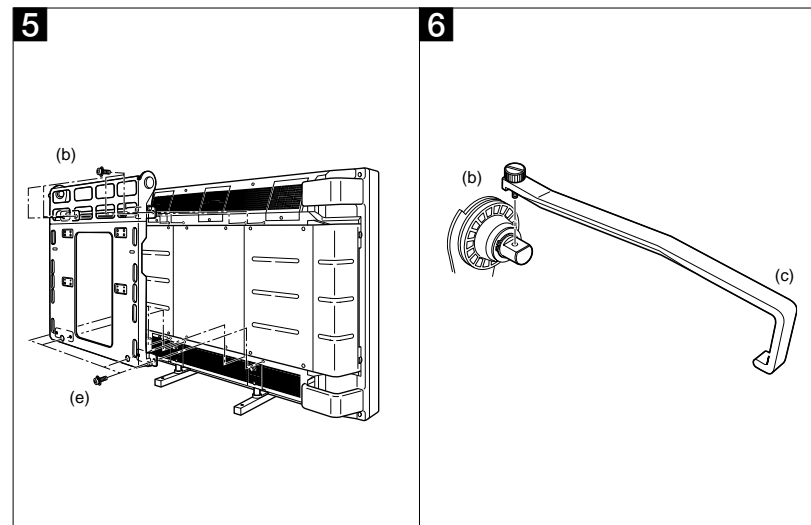
English

- 3** Pull down the retractable feet and stand the monitor up.
For details on using the retractable feet, see the Operating Instructions for the Sony flat panel monitor.

If the retractable feet and the foot support brackets are already installed on the monitor, go to Step 4. Otherwise, go to Step 5.

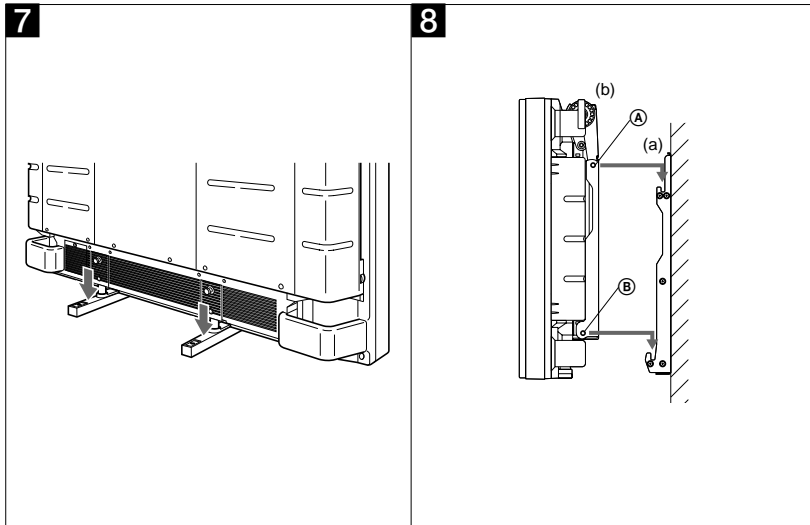
- 4** Remove the foot support brackets from the retractable feet.
For details on removing the foot support brackets, see the Operating Instructions for the Sony flat panel monitor.

Installation



English

- 5** Install the mounting bracket (b) on the flat monitor. Match the mounting bracket screw holes to the monitor screw holes, then insert and tighten eight M5 screws (e) to lock the bracket onto the monitor.
- 6** Attach the handle (c) on the mounting bracket (b) with the supplied screw (provided with the handle).



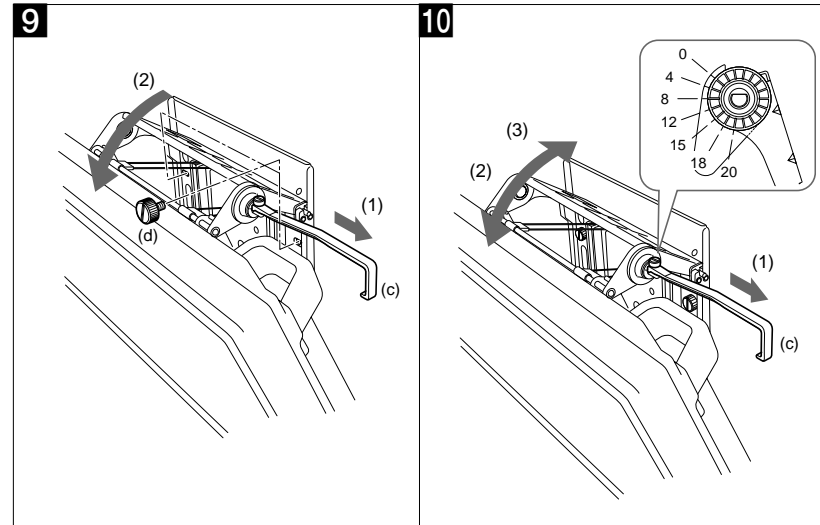
English

- 7** Store the retractable feet.
For details on using the retractable feet, see the Operating Instructions for the Sony flat panel monitor.
- 8** Install the flat monitor with the mounting bracket (b) on the wall bracket (a).
Hook two mounting bracket shafts (A, B) on the wall bracket grooves.

Note

Make sure that the shafts hook properly into the grooves.

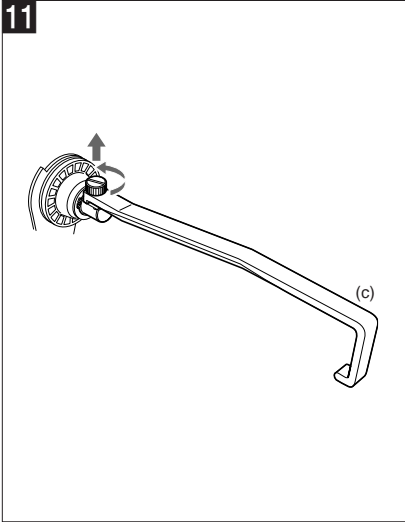
Installation



English

- 9** Lock the mounting bracket shafts (hooked in Step 8) by turning two knobs (d) so that the shafts do not move vertically.
Pull the handle (c) out (installed in Step 6) and unsnap the lock. Pull down the monitor panel so the mounting bracket angle is fully extended. Turn two knobs (d) and lock the monitor panel.
- 10** Adjust the monitor panel angle.
You can change the angle from 0° to 20° (7 levels). (Approx. 0°, 4°, 8°, 12°, 15°, 18° and 20°)
(1) Pull the handle (c) down to unsnap the lock.
(2) Push the panel to the desired angle.
(3) Let go of the handle and adjust the panel angle so it can be locked.

See the angle marks.

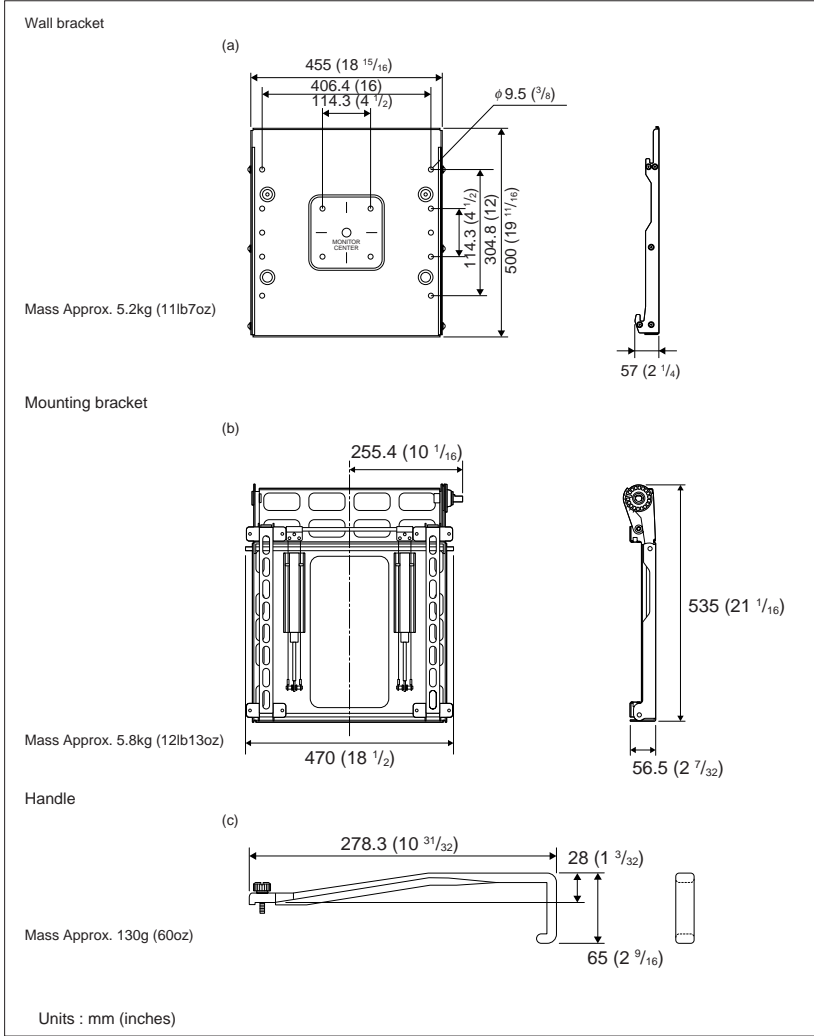


English

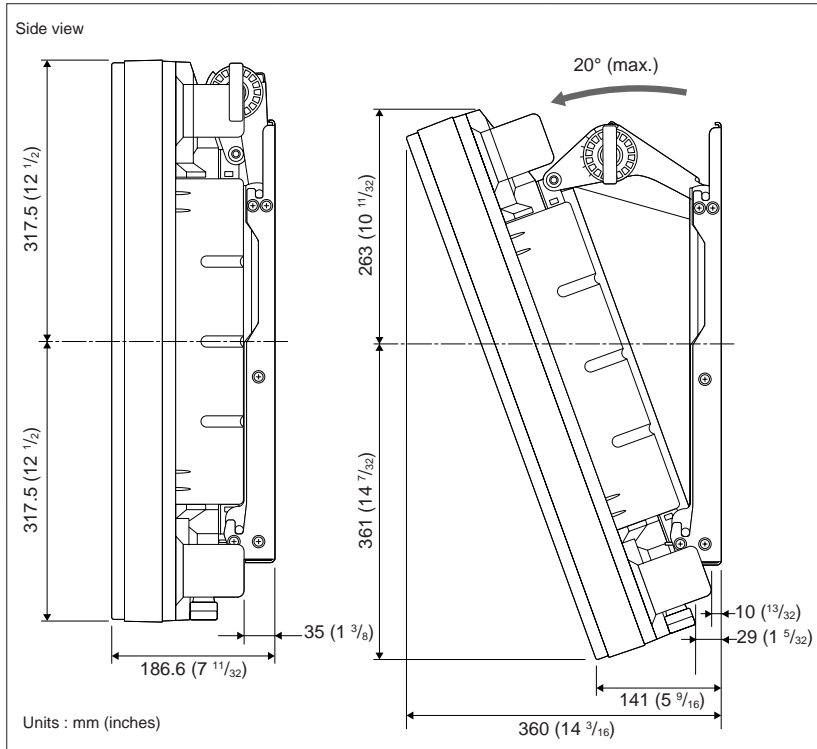
- 11** Loosen the screw and remove the handle.
Store the handle with the Operating Instructions.

Specifications

Dimensions



Dimensions of the assembled bracket



Design and specifications are subject to change without notice.

SONY®

Input Adaptor

Operating Instructions

BKM-500

Sony Corporation © 1999 Printed in Japan

English

WARNING

Owner's Record

The model and serial numbers are located on the rear.
Record the model and serial numbers in the spaces
provided below. Refer to these numbers whenever you call
upon your Sony dealer regarding this product.

Model No. BKM-500 Serial No. _____

**To prevent fire or shock hazard, do not
expose the unit to rain or moisture.**

**Do not open the cabinet.
Refer servicing to qualified personnel
only.**

For installation, consult your nearest Sony dealer.

For the customers in the U.S.A

This equipment has been tested and found to comply with
the limits for a Class A digital device, pursuant to Part 15 of
the FCC Rules. These limits are designed to provide
reasonable protection against harmful interference when
the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio
frequency energy and, if not installed and used in
accordance with the instruction manual, may cause harmful
interference to radio communications. Operation of this
equipment in a residential area is likely to cause harmful
interference in which case the user will be required to
correct the interference at his own expense.

You are cautioned that any changes or modifications not
expressly approved in this manual could void your authority
to operate this equipment.

For the customers in Europe

WARNING

This is a Class A product. In a domestic environment this
product may cause radio interference in which case the
user may be required to take adequate measures.

This section is reprinted
from operation manual.

English**For BKM-500 Users**

This Input Adaptor is for the PFM-500A/510A Series Sony Flat Panel Monitors. You can use the adaptor after installing it on the monitor.

For details on how to operate the Input Adaptor, refer to the Operating Instructions for the monitor.

For details on installation, contact your authorized Sony dealer.

SONY

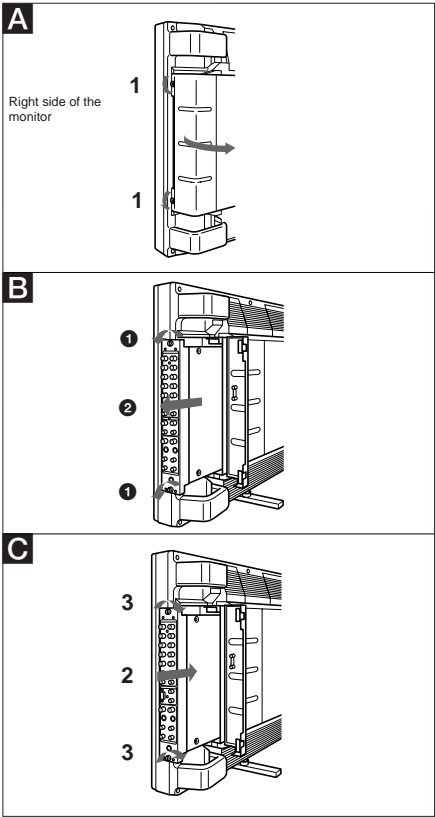
4-074-892-01 (1)

Input Adaptor

Installation Manual for
Dealers

BKM-500

Sony Corporation ©1999 Printed in Japan



English

Follow the steps below to install the Input Adaptor to the PFM-500A/510A series Flat Panel Monitors.

Installing the Input Adaptor (Figures A, B and C)

Before installation

- Before installation, make sure that the power to all the equipment is off. To turn the monitor completely off, press the switch so that the monitor changes to standby mode, then disconnect the power cable from the wall outlet.
- If the monitor has been installed on a wall, remove it from the wall.
- If you are using the SS-X500A Speaker System, remove the right speaker.
- Install the Input Adaptor to the monitor on a stable, flat and horizontal surface. Lock the monitor by using the retractable feet.

- 1 On the right side of the monitor, locate the screws that lock the panel cover on the monitor. Loosen the screws by turning them counterclockwise and open the cover.

A

If another connector panel has been installed on the monitor, remove the connector panel as follows:

- 1 Loosen the two screws that are at the top and bottom of the right connector panel.
You can now remove the connector panel. **B**
- 2 Slowly pull out the connector panel from the monitor. **B**

- 2 First make sure that the direction (top/bottom) of the Input Adaptor, then correct and insert it into the monitor. Make sure that the two connectors inside the monitor are connected firmly. **C**

- 3 Tighten the top and the bottom screws. **C**

- 4 Connect the required cables. Close the panel cover (opened in Step 1) and lock it with the cover screws.

Caution

Do not touch the connectors in the monitor. Doing so may be result in injury to yourself or damage to the connectors.

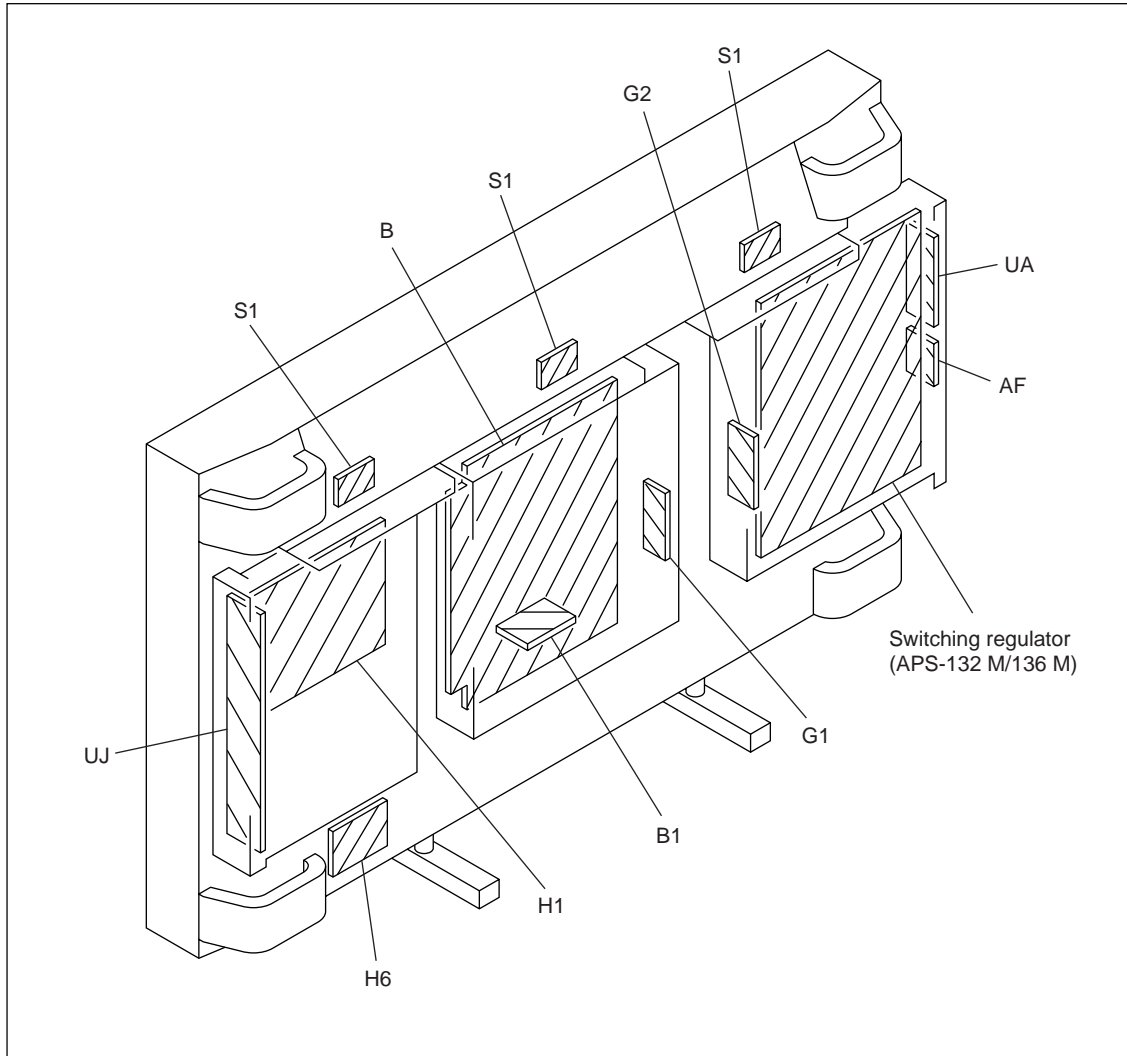
Sony online <http://www.world.sony.com/>

Printed on recycled paper

Section 2

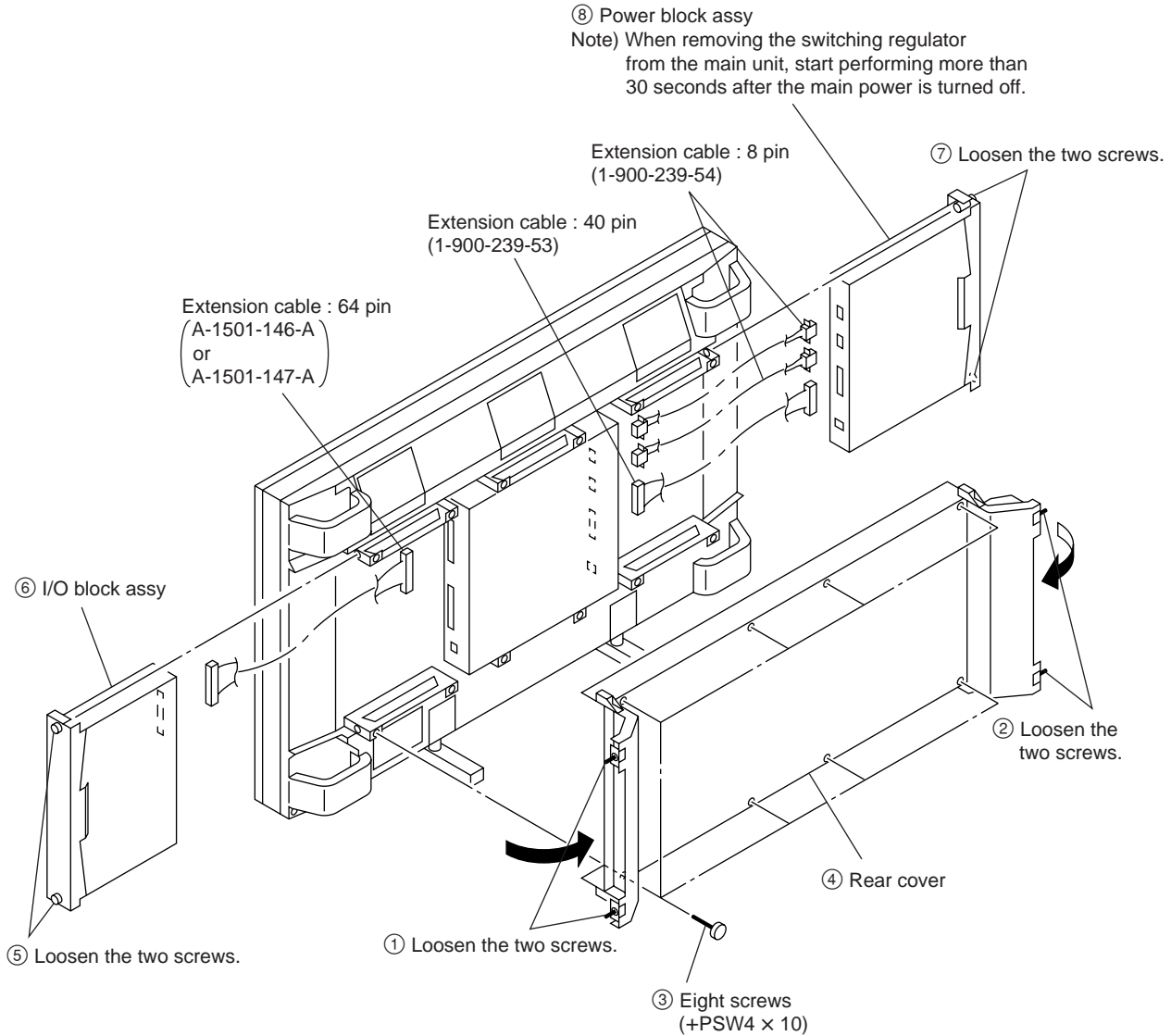
Service Informations

2-1. Circuit Boards Location

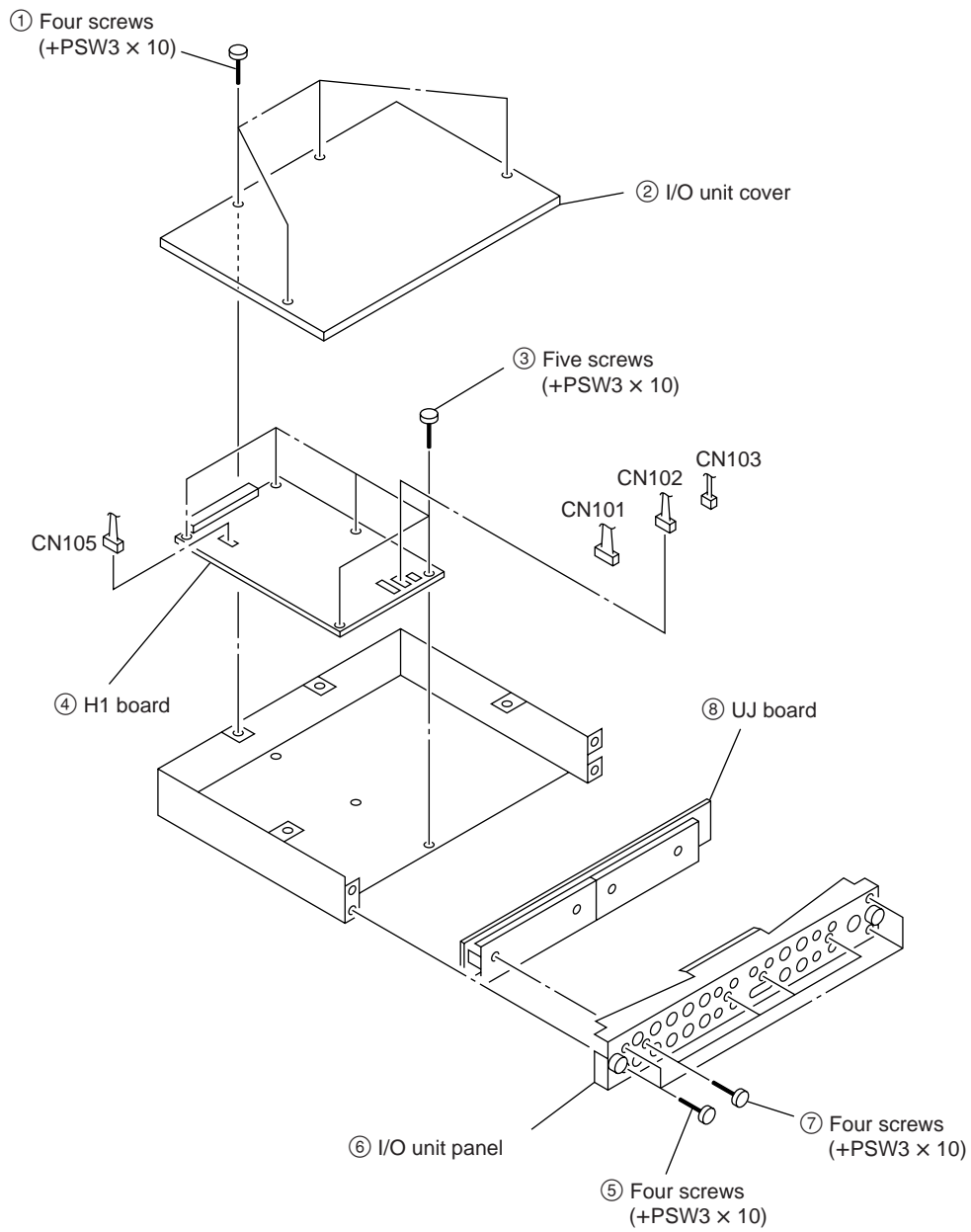


2-2. Disassembly

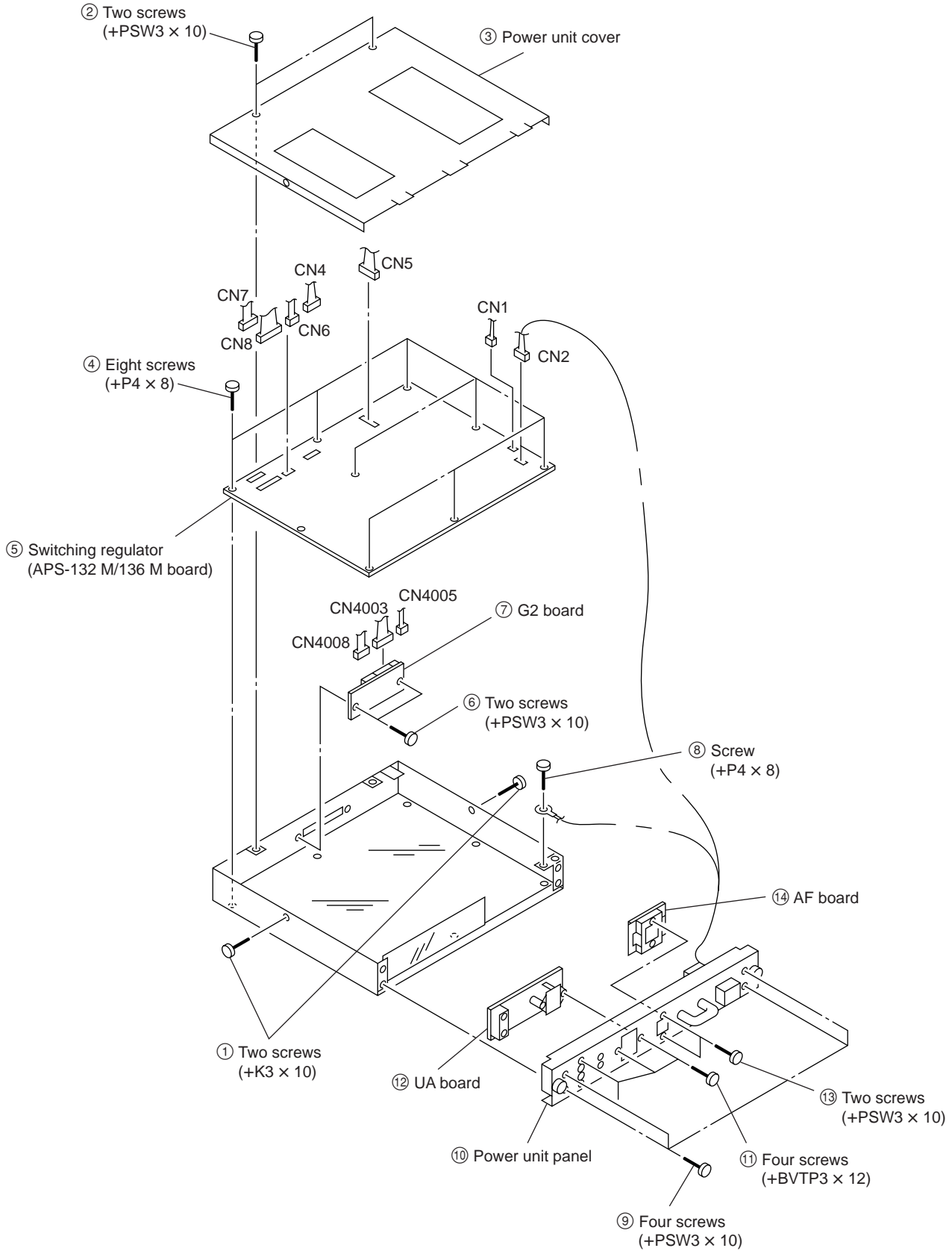
2-2-1. I/O Block Assy and Power Block Assy Removal and Extension Cable Connection



2-2-2. H1 and UJ Boards Removal

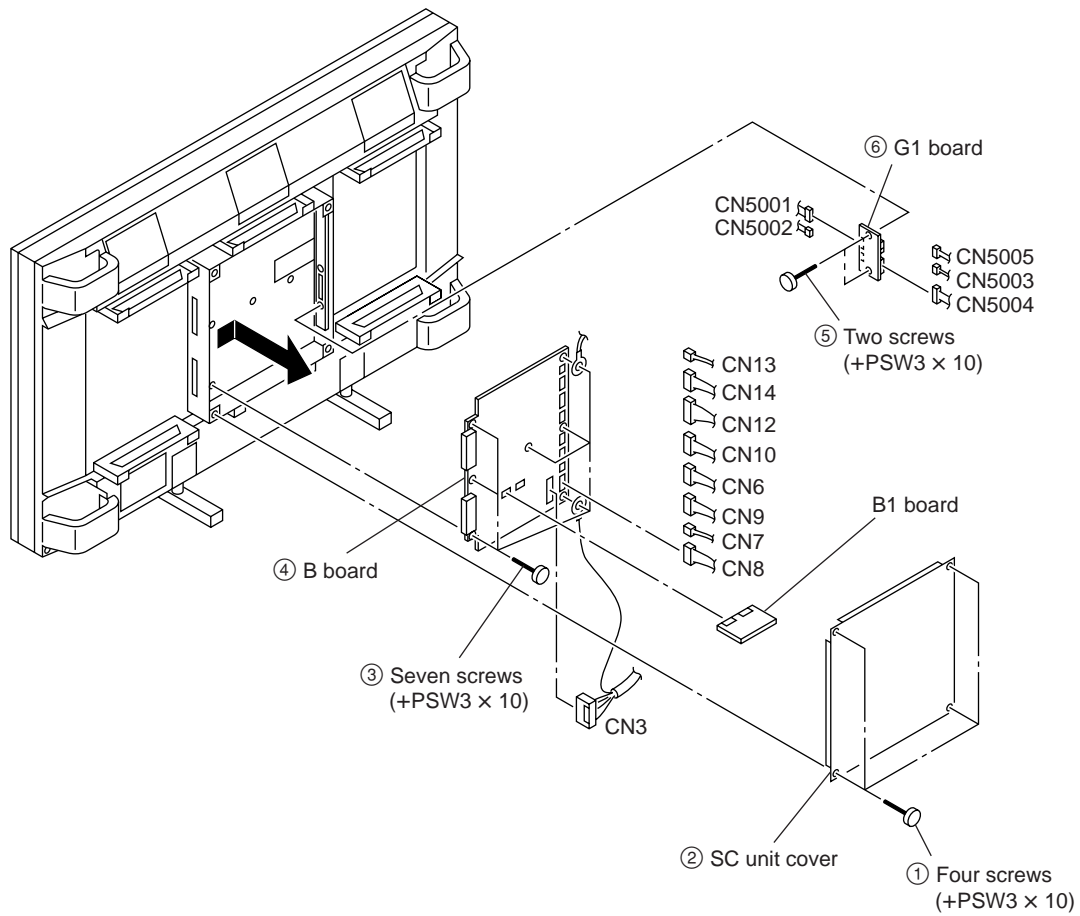


2-2-3. AF, G2, UA Boards and Switching Regulator (APS-132 M/136 M Board) Removal



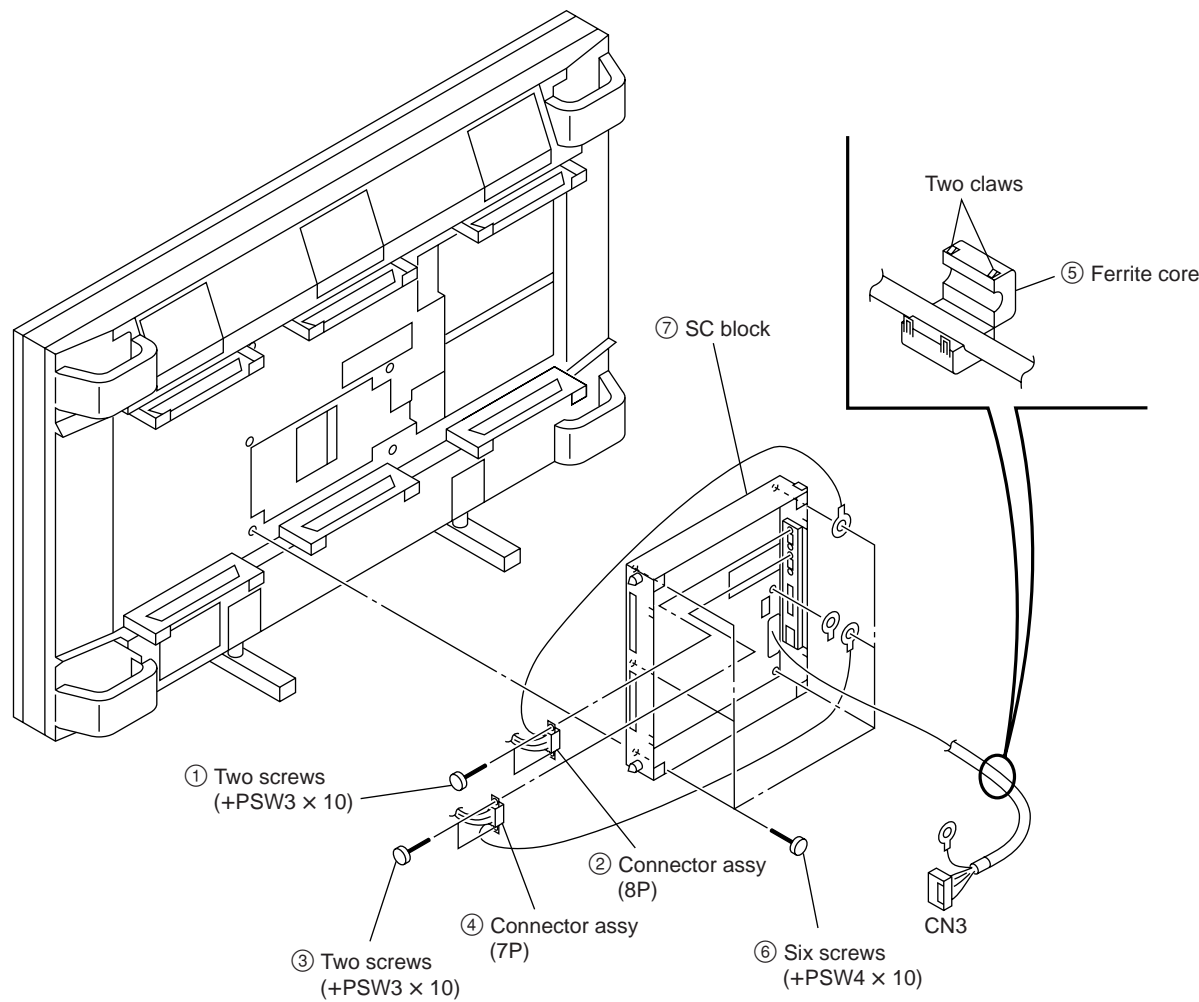
2-2-4. B and G1 Boards Removal

* Remove the Rear cover, I/O block assy and Power block assy. (Refer to 2-2-1.)



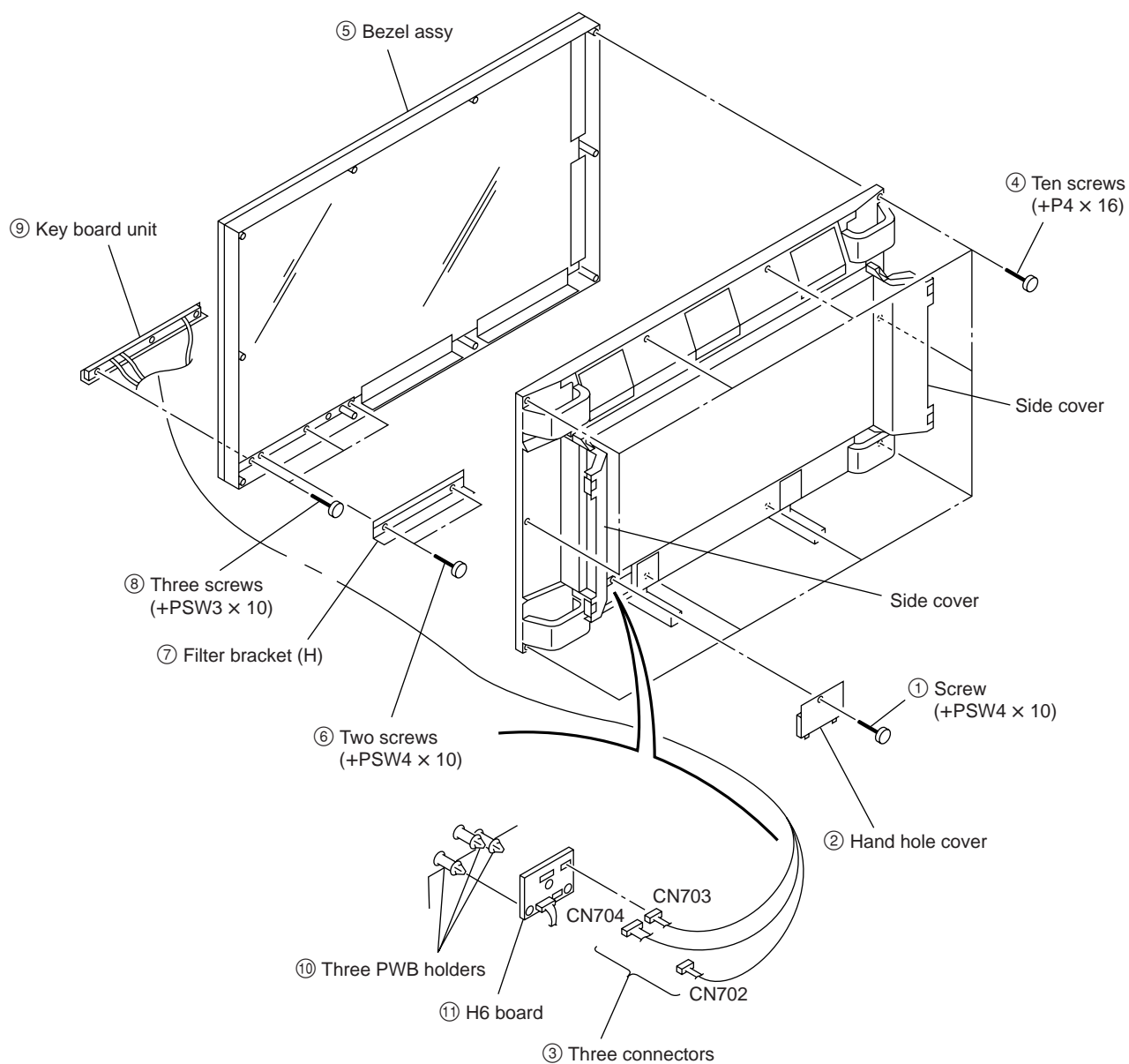
2-2-5. SC Block Removal

* Remove the B board. (Refer to 2-2-4.)



2-2-6. Bezel Assy and H6 Board Removal

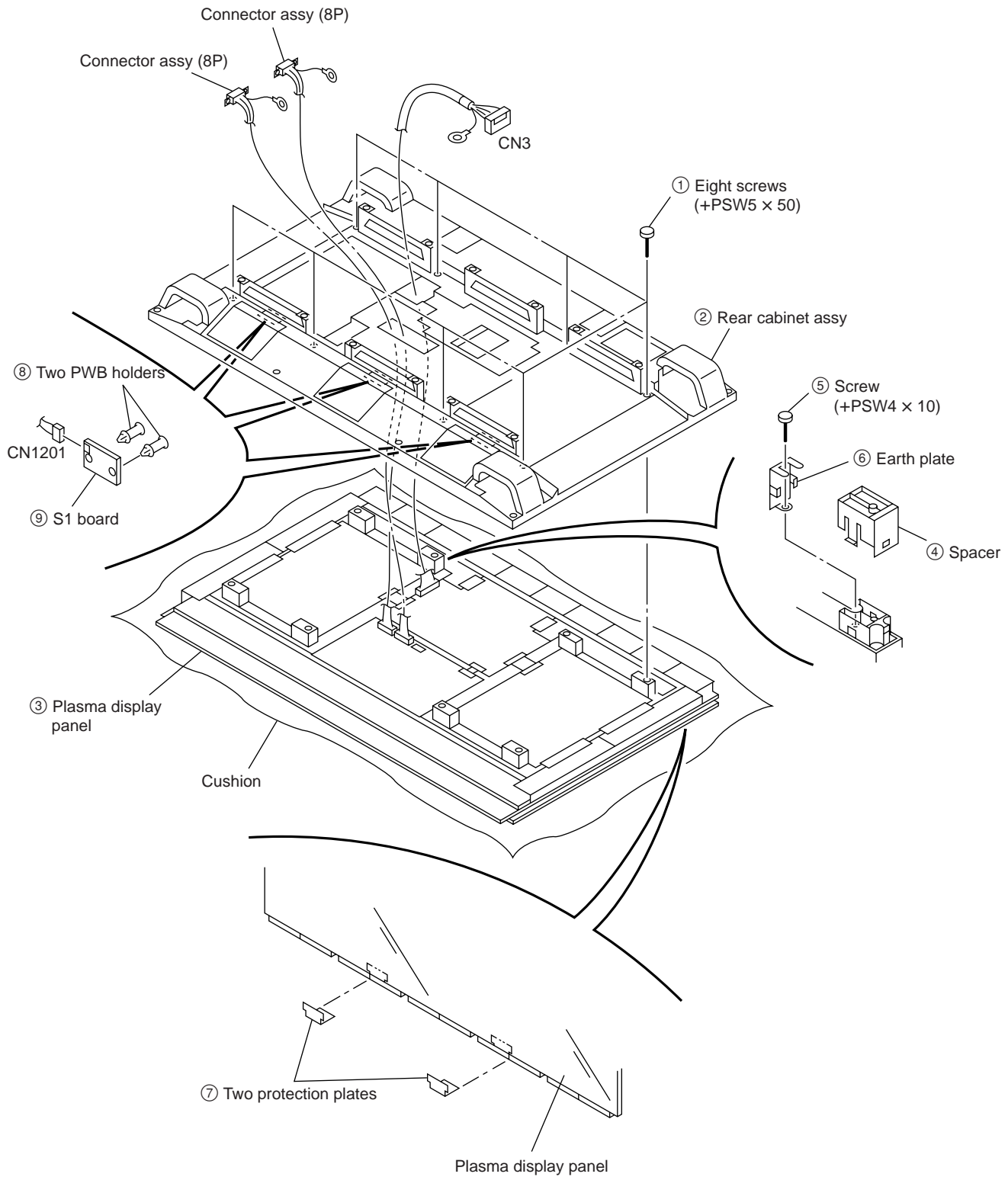
* Open the side cover. (Refer to 2-2-1.)



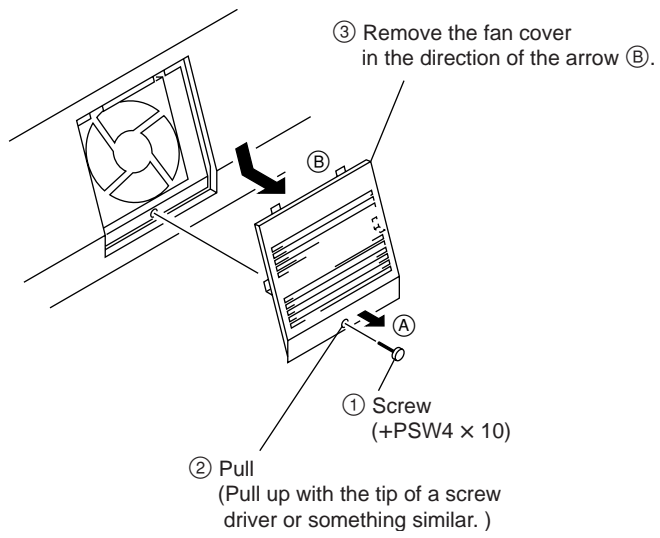
2-2-7. Plasma Display Panel and S1 Board Removal

* Remove the Bezel assy. (Refer to 2-2-6.)

* Remove the SC block. (Refer to 2-2-5.)



2-2-8. Fan Cover Removal



Section 3

Electrical Adjustments

3-1. Equipment Required

- Oscilloscope
Tektronix 2465 or equivalent
(band width : 350 MHz or more)
- VG (Programmable video signal generator)
VG814 or equivalent
- Frequency counter
Advantest TR5821AK or equivalent
- Digital voltmeter
Advantest TR6845 or equivalent
- Potential transformer
- Regulated DC power supply
- Remote commander (RM-921)

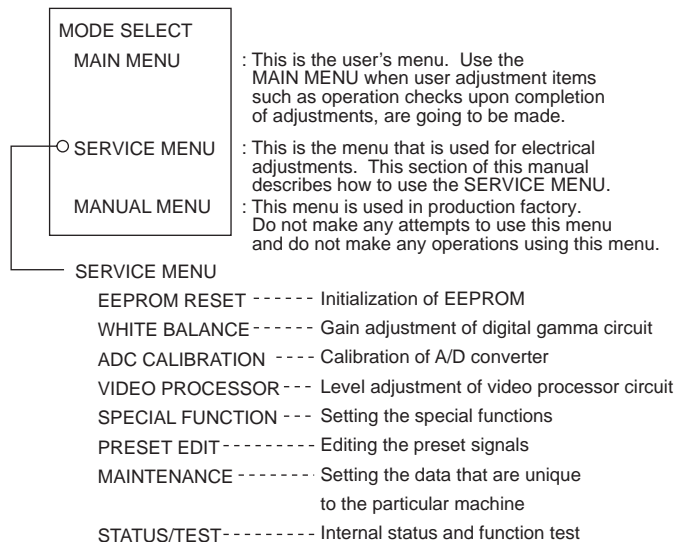
Note : Perform the following adjustments at least 5 minutes after turning on the power.

3-2. Electrical Adjustments Using the Service Mode

The electrical adjustments can be performed using the remote commander RM-921 supplied with the PFM-500A3W/510A2W. The remote commander has the Service Mode. Select the Service Mode to perform the electrical adjustments as listed below.

● Service Menu

When you enter the Service Mode, the mode menu appears as shown below. The mode menu contains the three menus of MAIN MENU, SERVICE MENU and MANUAL MENU as shown. Select the SERVICE MENU to perform the electrical adjustments.



How to enter the Service Mode :

In the STAND-BY state, press the keys in the following order.

DISPLAY → **5** → **VOL+** → **POWER**

How to exit the Service Mode :

Turn off the main power once and back on to enter the STAND-BY state or turn off the main power to exit the Service Mode.

● Operation of remote commander in the Service Mode

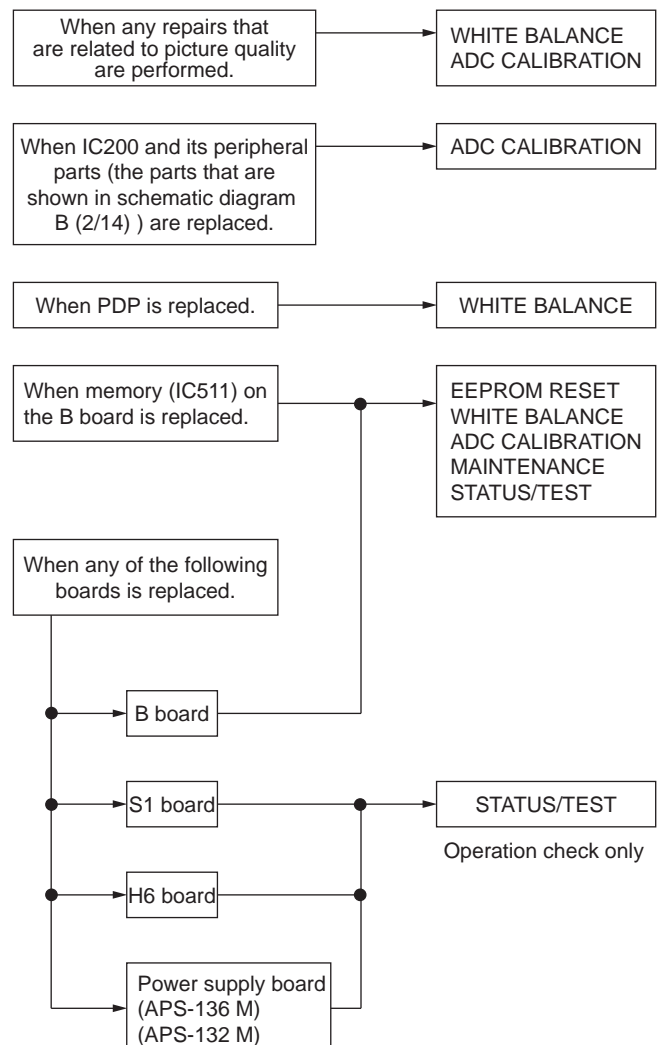
The four keys of MENU, ENTER, SELECT+ and SELECT- are the basic operation keys in the same manner as in the user adjustment. The other keys can be operated in the same manner as in the user adjustment.

Note : In the previous models PFM-500A1W/A2S and PFM-510A1W, the electrical adjustments for service are performed using the numeric keys. However, in this model, the electrical adjustments for service are performed using the basic operation keys in the same manner as in the user adjustment.

When the main power is turned on while the machine is in the previous models, the OSD (on-screen display) appears automatically. However, in this mode, the OSD appears when the MENU key is pressed in the same manner as in the user menu.

● The electrical adjustments using the Service Mode become necessary in the following cases.

When any of the following repairs is performed, adjustment using the service mode becomes necessary.



SERVICE MENU

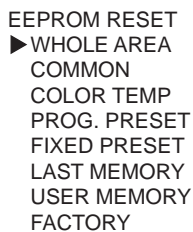
1. EEPROM RESET

EEPROM Configuration

Table 1 shows the configuration of EEPROM. The entire area or the respective areas of the EEPROM can be separately initialized.

Menu Structure

Select the desired area of EEPROM to be initialized using the following menu.



```
EEPROM RESET
▶ WHOLE AREA
COMMON
COLOR TEMP
PROG. PRESET
FIXED PRESET
LAST MEMORY
USER MEMORY
FACTORY
```

To initialize the desired area, firstly select the desired item from the EEPROM RESET menu. Change the selected item from CANCEL to EXECUTE. Then press ENTER.

a) **WHOLE AREA**

The entire area of the EEPROM is initialized. Initializing the entire area of the EEPROM has the same result as all menu items of COMMON, COLOR TEMP, PROG. PRESET, FIXED PRESET, LAST MEMORY, USER MEMORY and FACTORY are executed.

b) **COMMON**

Only the COMMON area of the EEPROM as shown in Table 1 is initialized.

When the COMMON area is initialized, the data that is unique to the particular machine and the common data (CONFIG MENU, REMOTE MENU) are initialized.

c) **COLOR TEMP**

Only the COLOR TEMP area of the EEPROM as shown in Table 1 is initialized.

When the COLOR TEMP area is initialized, the color temperature data in HIGH, LOW and the user setup data from 1 to 6 are initialized to 255. The users names are also initialized to “1” to “6”.

d) **PROG. PRESET**

Only the PROG. PRESET area of the EEPROM as shown in Table 1 is initialized.

When the PROG. PRESET area is initialized, the preset area (for 20 types) that is reserved as spare is initialized.

e) **FIXED PRESET**

Only the FIXED PRESET area of the EEPROM as shown in Table 1 is initialized.

When the FIXED PRESET area is initialized, the basic preset area is initialized to the built-in standard value that is stored in the system controller.

f) **LAST MEMORY**

Only the LAST MEMORY area of the EEPROM as shown in Table 1 is initialized.

When the LAST MEMORY area is initialized, only the last memory data of every signal that is adjusted by user is initialized.

g) **USER MEMORY**

Only the USER MEMORY area of the EEPROM as shown in Table 1 is initialized.

When the USER MEMORY area is initialized, all of the 20 types of adjustment data that is saved by the MEMORY function of the user menu are initialized to EMPTY.

h) **FACTORY**

Only the FACTORY area of the EEPROM as shown in Table 1 is initialized.

When the FACTORY area is initialized, all areas of the MEMORY except the areas that are listed below are initialized.

Items that are not initialized by the “FACTORY” RESET function.

- EEPROM ID CODE
- INDEX NUMBER
- MODEL NAME
- SERIAL NUMBER
- AUDIO DIGITAL
- DIGITAL TYPE
- YUV2 TYPE
- AUTO PLL SETUP
- AUTO PLL PIXEL
- H/V SHIFT
- VIDEO SHARP SW
- AUTO FT CANCEL
- WATCH ERROR
- Y GAIN
- R-Y GAIN
- B-Y GAIN
- R CUTOFF
- B CUTOFF
- ADC R GAIN
- ADC G GAIN
- ADC B GAIN
- ADC R OFFSET
- ADC G OFFSET
- ADC B OFFSET

2. WHITE BALANCE

Menu Structure

Adjust the white balance of the desired color temperature by selecting the items of the WHITE BALANCE menu and by adjusting the R, G, B gain of the digital gamma circuit.

```
WHITE BALANCE
▶ WINDOW      : OFF
  COLOR TEMP  : HIGH
  RED GAIN    : 255
  GREEN GAIN  : 255
  BLUE GAIN   : 255
```

a) WINDOW

The PFM-500A3W/510A2W has the built-in window signal for white balance adjustment. There are two sizes that are the large and small windows. Select the optimum size of window for white balance adjustment.

OFF : Window does not appear.

TYPE1 : Small window

TYPE2 : Large widow

Note : When white balance is going to be adjusted using an external signal, perform the A/D converter calibration (referring to the next paragraph 3) ADC CALIBRATION) before starting the white balance adjustment.

b) COLOR TEMP

To adjust the white balance, firstly select the desired color temperature from HIGH, LOW, 1, 2, 3, 4, 5 or 6 on the COLOR TEMP sub-menu. Color temperature of items 1 to 6 are the same as those of the user menu.

c) RED GAIN

Adjust the red gain of the selected color temperature. The range of adjustment is from 010 to 255.

d) GREEN GAIN

Adjust the green gain of the selected color temperature.

The range of adjustment is from 010 to 255.

e) BLUE GAIN

Adjust the red blue of the selected color temperature. The range of adjustment is from 010 to 255.

White Balance Adjustment

Refer to section “3-3. White Balance Adjustment”.

3. ADC CALIBRATION

Menu Structure

Calibrate the A/D converter (IC200) until non-uniformity between the R, G and B channels of the A/D converter is removed.

```
ADC CALIBRATION
▶ AUTO        : OFF
  CAL MODE    : 128
  RED GAIN    : 128
  GREEN GAIN  : 128
  BLUE GAIN   : 128
  RED BIAS    : 128
  GREEN BIAS  : 128
  BLUE BIAS   : 128

R : --- G : --- B : ---
```

a) AUTO

The A/D converter is automatically calibrated.

Note : When sufficient adjustment accuracy cannot be obtained by the automatic calibration, perform basically the manual calibration using the following ADC CALIBRATION menu items.

b) CAL MODE

The A/D converter has the calibration mode as its operating mode as follows.

* The A/D converter has the R, G, B GAIN adjustments and the R, G, B BIAS adjustments. The GAIN adjustments of the A/D converter are used for CONTRAST adjustment in the machine. The R, G, B BIAS adjustments of the A/D converter are used for BRIGHTNESS adjustment in the machine.

CAL MODE - OFF : Standard display state

The R, G, B GAIN values and the R, G, B BIAS values are controlled by the CONTRAST/BRIGHT data of the user menu. The R, G, B GAIN values and the R, G, B BIAS values of this menu cannot be adjusted independently.

CAL MODE - OFF : Calibration mode

The R, G, B GAIN values and the R, G, B BIAS values of this menu can be adjusted independently. The R, G, B data that appear in the most-bottom part of the menu in cyan, change from the indication “---” to the indication of any digital output data of the A/D converter.

c) RED GAIN/GREEN GAIN/BLUE GAIN

The respective R, G, B GAIN values can be adjusted independently.

The range of adjustment is from 000 to 255.

d) RED BIAS/GREEN BIAS/BLUE BIAS

The respective R, G, B BIAS values can be adjusted independently.

The range of adjustment is from 000 to 255.

A/D Calibration Adjustment

Refer to section “3-4. A/D Calibration Adjustment”.

4. VIDEO PROCESSOR

Menu Structure

The following items of the video processor can be adjusted using this menu. However, all items of the video processor have the default values on which normal operations are performed. Therefore, the video processor normally needs no adjustment.

```
VIDEO PROCESSOR
▶ Y GAIN      : 111
  R-Y GAIN    : 082
  B-Y GAIN    : 128
  RED CUTOFF  : 143
  BLUE CUTOFF : 100
```

- a) Y GAIN
The range of adjustment is from 000 to 255.
Default value : 111
- b) R-Y GAIN
The range of adjustment is from 000 to 255.
Default value : 082
- c) B-Y GAIN
The range of adjustment is from 000 to 255.
Default value : 128
- d) RED CUTOFF
The range of adjustment is from 000 to 255.
Default value : 143
- e) BLUE CUTOFF
The range of adjustment is from 000 to 255.
Default value : 100

Video Processor Adjustment

Refer to section “3-5. Video Processor Adjustment”.
(Perform the service menu adjustment of the video processor only when the specifications cannot be satisfied by section “3-5. Video Processor Adjustment”).

5. SPECIAL FUNCTION

Menu Structure

Various special functions as listed in the SPECIAL FUNCTION menu can be independently set as required.

```
SPECIAL FUNCTION
▶ AUTO DIGITAL
  DIGITAL TYPE
  RGB2 TYPE
  AUTO PLL SETUP
  AUTO PLL PIXEL
  H/V SHIFT
  VIDEO SHARP SW
  AUTO FT CANCEL
```

- a) AUTO DIGITAL
Sets enable/disable of automatic switching of the DIGITAL IN terminal.
The PFM-500A3W/510A2W is equipped with the DIGITAL IN terminal (CN2: Pins A21 to A32/B21 to B32) using the LVDS. The automatic switching of the DIGITAL IN terminal can be enabled/disabled as follows by the setup of the AUTO DIGITAL item of this menu.
ON : When the AUTO DIGITAL is set to ON, connect pin-A20 to GND to switch the DIGITAL IN terminal to the digital input. Disconnect pin-A20 to open to switch the DIGITAL IN terminal to the input state before the terminal is switched to digital.
OFF : When the AUTO DIGITAL is set to ON, the automatic switching of the DIGITAL IN terminal is disabled.
Set the AUTO DIGITAL item to the ON position normally.
- b) DIGITAL TYPE
Selects either RGB signal or the YUV signal as the input signal to the DIGITAL IN terminal.
RGB : The RGB signal is selected as the input signal to the DIGITAL IN terminal.
YUV : The YUV signal is selected as the input signal to the DIGITAL IN terminal.
Set the DIGITAL TYPE item to the RGB position normally.
- c) RGB2 TYPE
Selects either RGB signal or the YUV signal as the input signal to the RGB2 terminal.
RGB : The RGB signal is selected as the input signal to the RGB2 terminal.
YUV : The YUV signal is selected as the input signal to the RGB2 terminal.
Set the RGB2 item to the RGB position normally.

d) **AUTO PLL SETUP**

Sets enable/disable of automatic execution of the PIXEL ADJUST function.

ON : When the AUTO PLL SETUP is set to ON, the PIXEL ADJUST is automatically executed when the main power is turned on or when the input signal is switched. (Be noted that about 10 seconds are required to output the video signal after switching the input signal when this function is kept to the ON position.)

OFF : The automatic PIXEL ADJUST is executed only when AUTO item of the user menu PIXEL ADJUST is activated.

This function becomes valid only when the signal that enables the PIXEL ADJUST is inputted to the PFM-500A3W/510A2W.

Set the AUTO PLL SETUP item to the OFF position normally.

e) **AUTO PLL PIXEL**

Selects the functions that are automatically adjusted when PIXEL ADJUST is executed.

ON : Both the TOTAL H PIXEL and DOT PHASE are automatically adjusted.

OFF : Only the DOT PHASE is automatically adjusted.

In the case that the PFM-500A3W/510A2W is used under the environment where input signal contains much noise, there are cases that the PIXEL ADJUST mis-operations. Therefore, set the AUTO PLL PIXEL to the OFF position. In such a case, the TOTAL H PIXEL can be adjusted only manually.

This function becomes valid only when the signal that enables the PIXEL ADJUST is inputted to the PFM-500A3W/510A2W.

Set the AUTO PLL PIXEL item to the ON position normally.

f) **H/V SHIFT**

Selects the method to control the horizontal and vertical picture shift.

EDGE : When EDGE is selected, a picture is shifted by changing the starting position when reading data into memory. Using this function, the entire area including blanking of all pictures can be displayed by shifting. The variable range of shifting is 1 horizontal and vertical period respectively.

CAPT : When CAPT is selected, the picture that is already written into memory is shifted by a scan converter. Using this function, a picture can be shifted as much as $\pm 50\%$ of a picture. When a picture is partly lacked at an end of a picture, the lacked portion of a picture cannot be displayed.

Set the H/V SHIFT item to the EDGE position normally.

g) **VIDEO SHARP SW**

Sets analog aperture ON or OFF.

The two methods are used for the aperture correction of the video signals (NTSC/PAL/SECAM/NTSC4.43/PAL60 and YUV signal having horizontal frequency of 15 kHz). These two methods are the scaling filter and the analog aperture of the scan converter.

ON : Both the scaling filter and the analog aperture of the scan converter are used for aperture correction.

OFF : Only the scaling of the scan converter is used for aperture correction.

This function becomes valid only when the signal (NTSC/PAL/SECAM/NTSC4.43/PAL60 and YUV signal having horizontal frequency of 15 kHz) is inputted to the PFM-500A3W/510A2W.

Set the VIDEO SHARP SW item to the ON position normally.

h) **AUTO FT CANCEL**

Sets the FT (field tearing) cancel circuit ON or OFF.

The PFM-500A3W/510A2W has the FT (field tearing) prevention circuit caused by the overrun of memory while it is displaying the moving picture (video and DTV). However, there can be cases that noise appears on screen when the FT (field tearing) prevention is being executed.

ON : The FT (field tearing) is cancelled in every picture size and in every shift conditions as long as the PFM-500A3W/510A2W is receiving the moving picture. When this item is set to ON, noise may appear only once after the size/shift is adjusted. (Noise does not last long but appears only once when the size/shift adjustment is complete.)

OFF : The FT (field tearing) cancel circuit is disabled. When OFF is selected, there can be a case that the FT (field tearing) appears on screen depending on the adjustment conditions of picture size/shift. However, the noise due to operation of the processing circuit does not occur.

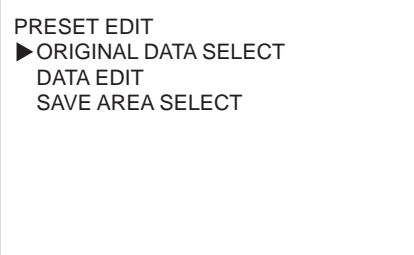
Set the AUTO FT CANCEL item to the ON position normally.

6. PRESET EDIT

Preset Data Configuration

Memory map of the preset data area is shown in Table 1 (PROG. PRESET/FIXED PRESET). The areas from 1 to 20 are assigned to store the additional signal. The areas from 21 to 74 are assigned to store the internal signal.

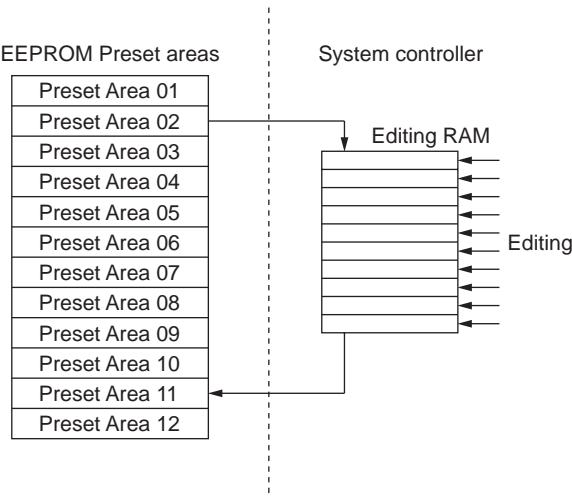
Menu Structure



How To Edit The Preset Data

As shown in the illustration, the system controller contains the memory area (i.e., Editing RAM) that is assigned only for data editing. The source data that is used for editing must be firstly copied to the Editing RAM. Edit then the copied data as desired. Finally save the result of editing in the specified preset area of the EEPROM.

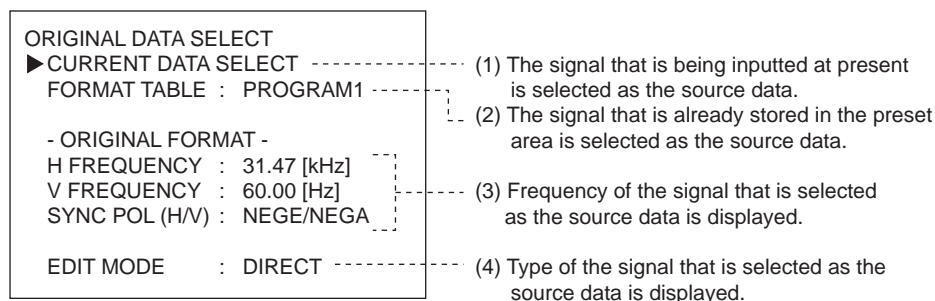
(The illustration shows an example that the data in the preset area No. 02 is once copied to the Editing RAM where data is edited. The edited data is sent back to the preset area No. 11 where the edited data is saved.)



a) ORIGINAL DATA SELECT

Menu Structure

Select the source data that is used for editing. Then the selected source data is copied to the Editing RAM.



(1) CURRENT DATA SELECT

When an editing is performed using the signal that is being inputted at present is selected as the source data, move the cursor to this item and press ENTER. The selected data is copied to the Editing RAM.

(2) FORMAT TABLE : PROGRAM 1

When an editing is performed using the signal that is already stored in the preset area is selected as the source data, move the cursor to this item and press ENTER. Select the desired area from Table 1 by pressing the +/- keys. The selected data is copied to the Editing RAM.

(3) - ORIGINAL FORMAT -

Frequency of the signal that is selected as the source data in step (1) or (2) is displayed.

Use the frequency data as the fundamental information when selecting a source data.

(4) EDIT MODE

When the signal that is being inputted at present is selected as the source data, the message DIRECT appears. When the signal that is already stored in the preset area is selected as the source data, the message TABLE appears.

Note : The editing items that can be editing here are different in the DIRECT mode and the TABLE mode. Refer to the next sub-section "b) DATA EDIT" for the editing items.

< When DIRECT mode is used for editing >

... The DIRECT mode is used when editing is performed while watching the picture on screen in the case that the specifications of the signal are not known. ... When DIRECT mode is selected, select the desired adjustment item referring to the next sub-section "b) DATA EDIT" by pressing the +/- keys. Press the ENTER key. Then the result of data adjustment is reflected on the display screen. (Pressing the MENU key returns to the previous menu display.) However, the three adjustment items H FREQUENCY, V FREQUENCY and SYNC POL cannot be changed by the menu operation.

< When TABLE mode is used for editing >

... The TABLE mode is used when the specifications of the signal to edit are already known. ... All adjustment items adjusted by the menu but result of adjustment is not reflected on the actual picture. Data can be edited only.

b) DATA EDIT

Menu Structure

The following items of the source data that is copied to the Editing RAM can be modified as described below.

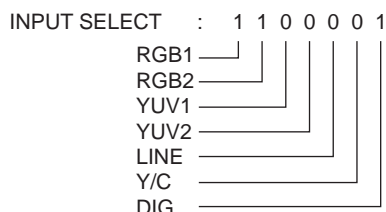
DATA EDIT		
▶ INPUT SELECT	: 1100000	----- (1) Acceptable type of input signal
H FREQUENCY	: 31.47 [kHz]	----- (2) Horizontal frequency
V FREQUENCY	: 60.00 [Hz]	----- (3) Vertical frequency
SYNC POL (H/V)	: NEGA/NEGA	----- (4) Sync signal polarity
TOTAL H PIXEL	: 800	----- (5) Total number of horizontal dots
LEFT EDGE	: 140	----- (6) Horizontal dot position to start reading
H RESOLUTION	: 640	----- (7) Horizontal resolution (Number of dots)
TOP EDGE	: 35	----- (8) Vertical dot position to start reading
V RESOLUTION	: 480	----- (9) Vertical resolution (Number of dots)
DOT PHASE	: 128	----- (10) Dot phase
CP PLACEMENT	: 005	----- (11) Clamp pulse width (Number of dots)
CP DURATION	: 016	----- (12) Clamp pulse position (Number of dots)
INTERLACE MODE	: OFF	----- (13) Interlace setting
FILED MODE	: OFF	----- (14) In-field processing setting
FRAMELOCK MODE	: OFF	----- (15) Vertical sync setting
MATRIX SELECT	: ITU709	----- (16) Color difference matrix setting
PICTURE AGC	: ON	----- (17) Automatic brightness adjustment setting
ASPECT	: 4 × 3	----- (18) Aspect ratio setting
ZOOM	: × 1	----- (19) Zoom setting
APERTURE INIT	: MID	----- (20) Aperture initial value setting
APERTURE HIGH	: 000	----- (21) Aperture data setting
APERTURE MID	: 002	----- (22) Aperture data setting
APERTURE LOW	: 004	----- (23) Aperture data setting
AUTO PLL	: ON	----- (24) Automatic PIXEL ADJUST setting
SYNC WIDTH (μs)	: 003.81	----- (25) Horizontal sync signal width

Note : A maximum of 8 lines of the above menu can be displayed on screen. The other menu items can be displayed by scrolling the display by moving the cursor up or down.

(1) INPUT SELECT

The input signals that are acceptable to the PFM-500A3W/510A2W are set.

This item consists of 8 bits. Each bit corresponds to each type of input signal. Only the input channel to which “1” is set, can be received by the PFM-500A3W/510A2W.



Note : Regarding the LINE and Y/C input channels, these signals having horizontal frequency of 15 kHz can be inputted. Because these input signals pass through the double-speed processing circuit in the PFM-500A3W/510A2W circuit configuration, do not use the LINE and Y/C input channels.

(2) H FREQUENCY

The horizontal frequency is set.

Note: This menu item cannot be modified in the DIRECT mode because the DIRECT mode can edit the signal that is being inputted at present.

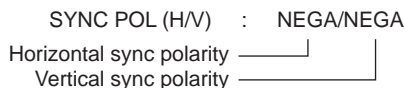
(3) V FREQUENCY

The vertical frequency is set.

Note : This menu item cannot be modified in the DIRECT mode because the DIRECT mode can edit the signal that is being inputted at present.

(4) SYNC POL (H/V)

Polarity of sync signal is set.



To set the polarity, select as follows:

Negative polarity : NEGA
Positive polarity : POSI
SOG : ---

Note : This menu item cannot be modified in the DIRECT mode because the DIRECT mode can edit the signal that is being inputted at present.

(5) TOTAL H PIXEL

The total number of dots in a horizontal period is set.
The number of dots that is set here becomes the initial value of the user menu “TOTAL H PIXEL”.

Note : Set the total number of dots to satisfy the following conditions.
 $TOTAL\ H\ PIXEL \geq [LEFT\ EDGE + H\ RESOLUTION]$

(6) LEFT EDGE

The horizontal sync width (in dots) + horizontal back porch width (in dots) are set.

(7) H RESOLUTION

Horizontal resolution power is set.

Note : When 1280 or more is set to the horizontal resolution, picture may not be displayed normally on screen. When a signal that has the higher resolution than the SXGA signal, is going to be preset, reduce the number of horizontal resolution by skipping or any other means down to 1280 or less.

(8) TOP EDGE

The vertical sync width (in lines) + vertical back porch width (in lines) are set.

Note : Set the TOP EDGE value to satisfy the following conditions.
 $[TOP\ EDGE + V\ RESOLUTION] \leq [horizontal\ frequency + vertical\ frequency]$

(9) V RESOLUTION

The vertical resolution is set.

Note : Set the V RESOLUTION value to satisfy the following conditions.
 $[TOP\ EDGE + V\ RESOLUTION] \leq [horizontal\ frequency + vertical\ frequency]$

(10) DOT PHASE

Pulse phase of the horizontal sampling frequency is set.

The pulse phase that is set here becomes the initial value of DOT PHASE of the user menu.

The pulse phase can be set in the range of 000 to 255.

(11) CP PLACEMENT

Clamp pulse position is set.

The clamp pulse position is set starting from the trailing edge of horizontal sync signal (when data is 000). Increasing this value moves the clamp pulse in the direction toward the picture area.

The clamp pulse generating position “Tcp” is given by the following equation starting from the trailing edge of horizontal sync signal.

$$Tcp = CP\ PLACEMENT / [horizontal\ sync\ frequency \times TOTAL\ H\ PIXEL] \text{ (in seconds)}$$

(12) CP DURATION

Clamp pulse width is set.

The clamp pulse width is set starting from the position that is determined by CP PLACEMENT. Increasing this value widens the clamp pulse width in the direction toward the picture area.

The clamp pulse width “Wcp” is given by the following.

$$Wcp = CP\ DURATION / [horizontal\ sync\ frequency \times TOTAL\ H\ PIXEL] \text{ (in seconds)}$$

(13)INTERLACE MODE

Whether the input signal is interlaced or not is set.

ON : When the input signal is the interlaced signal.

OFF : When the input signal is not the interlaced signal.

(14)FIELD MODE

Whether the interlaced signal is processed within a field or within a frame, is set.

ON : When the input interlaced signal is processed within a field.

OFF : When the interlaced signal is processed within a frame.

Select the ON position when a signal has a low correlation between the two fields within a frame such as moving picture.

(15)FRAMELOCK MODE

Whether the PDP display picture is synchronized with the input signal to scan converter or not, is set.

ON : The PDP display picture is synchronized with the input signal.

OFF : The PDP display picture is asynchronous with the input signal.

When moving picture (animation) is going to be displayed, select the ON position.

Note : This item can be set to ON as long as the vertical frequency of the input signal is in the range of 50 to 60 Hz.

(16)MATRIX SELECT

The color difference matrix when the YUV signal is being input, is set.

(17)PICTURE AGC

Whether the PICTURE AGC is turned ON or OFF is set.

Result of this setting becomes the initial value of the user menu PICTURE AGC.

This function becomes valid only when the COMPOSITE/YC/YUV signal is being received.

(18)ASPECT

The desired aspect ratio is selected from the aspect ratios of 4×3 or 16×9 or W ZOOM. Result of this setting becomes the initial value of the user menu ASPECT.

Note : The W ZOOM can not be selected when the ZOOM is in the range of $\times 2$ to $\times 4$.

(19)ZOOM

The desired zoom ratio is selected from the zoom ratios of $\times 1$ or $\times 2$ or $\times 3$ or $\times 4$. Result of this setting becomes the initial value of the user menu ZOOM.

Note : Any zoom ratios other than $\times 1$ cannot be selected when the ASPECT is W ZOOM.

(20)APERTURE INIT

The desired aperture is selected from HIGH or MID or LOW. Result of this setting becomes the initial value of the user menu APERTURE.

(21)APERTURE HIGH

The scaling filter value when selecting HIGH of the APERTURE, is set. The scaling filter value can be set in the range of 000 to 011. (Refer to the Supplement to APERTURE in the following paragraph.)

(22)APERTURE MID

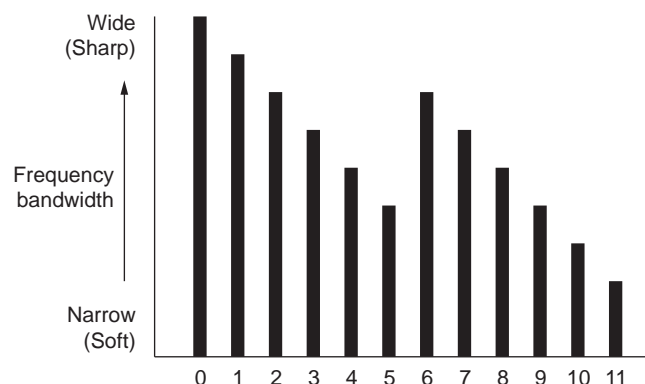
The scaling filter value when selecting MID of the APERTURE, is set. The scaling filter value can be set in the range of 000 to 011. (Refer to the Supplement to APERTURE in the following paragraph.)

(23)APERTURE LOW

The scaling filter value when selecting LOW of the APERTURE, is set. The scaling filter value can be set in the range of 000 to 011. (Refer to the Supplement to APERTURE in the following paragraph.)

< Supplement to APERTURE >

The PFM-500A3W/510A2W has the 12 different types of built-in scaling filter. Select an appropriate filter using the following filter characteristics chart as a guideline.



(24) AUTO PLL

Whether the user menu adjustment PIXEL ADJUST is enabled or disabled, is set.

ON : The user menu adjustment PIXEL ADJUST is enabled.

OFF : All items of the adjustment PIXEL ADJUST show the indication [---]. The user menu adjustment PIXEL ADJUST is disabled.

Select the OFF position when the setup of the TOTAL H and that of RESOLUTION do not agree with specifications of the actual input signal.

(25) SYND WIDTH (μs)

Sync pulse width of the horizontal sync signal is set in units of microseconds [μseconds].

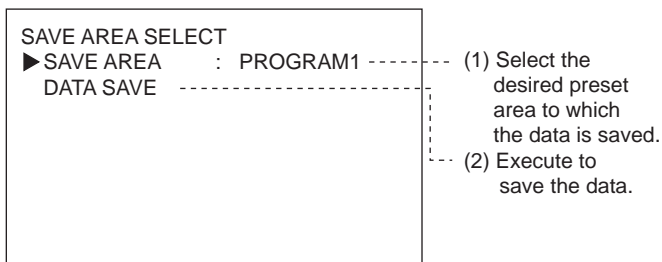
This menu item is prepared for the purpose of stabilization of the sync signal separation circuit. Therefore, accurate setting is not necessarily needed.

If the sync signal width is not known, select "Not set" (source data).

c) SAVE AREA SELECT

Menu Structure

The data that is copied in the Editing RAM, is saved in the preset area.



(1) SAVE AREA SELECT

Select the desired preset area from Table 1 to which the content of the Editing RAM is saved.

(2) DATA SAVE

Execute to save the data to the preset area that is selected by the SAVE AREA SELECT. Change the item from CANCEL to EXECUTE. Then press ENTER.

Note : Judgment whether the input signal agrees with the preset data or not, is performed using the horizontal sync frequency, vertical sync frequency and polarity of the sync signals. If the same sync signal already exists in the preset area (Table 1), the specification that has the small preset No., has a higher priority.

7. MAINTENANCE

Menu Structure

The data that is unique to the particular machine of the PFM-500A3W/510A2W and the scan converter can be upgraded using this menu.

```
MAINTENANCE
▶WATCH ERROR
MODEL NAME
SERIAL No.
SC PROG LOAD
```

a) WATCH ERROR

Errors of the built-in watch IC can be corrected.

To correct the error, enter the measurement value of the frequency counter that is connected.

Range of adjustment is from 32761.85 Hz to 32774.25 Hz.

b) MODEL NAME

Model name can be set.

c) SERIAL No.

Serial number can be set.

d) SC PROG LOAD

The built-in program of the scan converter can be modified using this menu item.

Change the item from CANCEL to EXECUTE. Then press ENTER.

Watch Error Adjustment

Refer to section "3-6. Watch Error Adjustment".

8. STATUS/TEST

Menu Structure

The internal status of the PFM-500A3W/510A2W can be checked and its functions can be checked using the STATUS/TEST menu.

STATUS/TEST
► SIGNAL/SYNC
POWER SUPPLY
TEMPERATURE
FAN
SOFTWARE VERSION
TEST FUNCTION

a) SIGNAL/SYNC

SIGNAL/SYNC		
H FREQUENCY	: 31.47 [kHz]	Horizontal frequency
V FREQUENCY	: 60.00 [Hz]	Vertical frequency
FORMAT	: 640 × 480/60	Specifications of the signal
SYNC POL (H/V)	: NEGA/NEGA	Polarity of sync signal
STABLE		Status of sync signal
INSECURE		
NO SYNC		

Information regarding the sync signal of the input signal is displayed.

- Horizontal frequency : Horizontal frequency of the input signal is displayed in four digits.
- Vertical frequency : Vertical frequency of the input signal is displayed in four digits.
- Specifications of the signal : Names of presets of the preset areas (Table 1) corresponding to input signal are displayed.
- Polarity of sync signal : Polarity of sync signal is displayed.
- Status of sync signal : Status of sync signal is displayed in cyan.
 - STABLE : Sync signal is stable.
 - INSECURE : Sync signal is unstable.
 - NO SYNC : Sync signal does not exist.

b) POWER SUPPLY

POWER SUPPLY		
PDP VS (HV)	: 160 [V]	PDP drive voltage VS
PDP VA (MV)	: 060 [V]	PDP drive voltage VA
DIGITAL 5V	: 4.9 [V]	5 V power for digital circuitry

The main DC power voltages of the PFM-500A3W/510A2W are displayed.

- PDP drive voltage VS : High voltage power to PDP is displayed.
- PDP drive voltage VA : Medium voltage power to PDP is displayed.
- 5 V power for digital circuitry : Internal 5 V power is displayed.

c) TEMPERATURE

TEMPERATURE		
PANEL BACK SIDE		Temperature at the top on the rear of the power supply panel
• P/S BLOCK SIDE	: 25 [°C]	
• CENTER	: 25 [°C]	
• I/O BLOCK SIDE	: 25 [°C]	
P/S INTERNAL	: OK	Power supply internal temperature information
AMBIENT TEMP	: 25 [°C]	Outside ambient temperature

Internal temperature information of PFM-500A3W/510A2W is displayed.

- Temperature at the top on the rear of the power supply panel : Temperatures under the respective fans on the rear of the power supply panel are displayed as follows.
 - P/S BLOCK SIDE : Temperature of the side of the power supply block.
 - CENTER : Temperature at the center.
 - I/O BLOCK SIDE : Temperature of the I/O terminal block.
- Power supply internal temperature information : Temperature status inside the power supply block is displayed. The message OK appears when temperature is normal. The message NG appears when temperature is abnormal.
- Outside ambient temperature : Temperature in the lower part (H6 board block) on the rear of the PFM-500A3W/510A2W is displayed.

d) FAN

FAN		
PANEL BACK SIDE		
• I/O BLOCK SIDE	: OK	Fan at the top on the rear of the power supply panel
• CENTER	: OK	
• P/S BLOCK SIDE	: OK	
POWER SUPPLY SIDE		
• No. 1	: OK	Power supply internal fan
• No. 2	: OK	
DRIVE CIRCUIT	: OK	Fan drive circuit

The cooling fan operational information inside the PFM-500A3W/510A2W is displayed. The message OK appears when fan is normal. The message NG appears when fan is abnormal.

Fan at the top on the rear of the power supply panel :
Operating states of the respective fans on the rear of the power supply panel are displayed as follows.

P/S BLOCK SIDE :

Fan on the side of the power supply block.

CENTER : Fan in the center.

I/O BLOCK SIDE : Fan in the I/O terminal block.

Power supply internal fan :

Operating state of the fan inside the power supply block is displayed.

Fan drive circuit :

Operating state of the fan control circuit is displayed.

The message OK appears when fan is normal. The message NG appears when fan is abnormal.

e) SOFTWARE VERSION

SOFTWARE VERSION		
MAIN CPU	: Ver. 1.00	System controller
SCAN CONVERTER	: Ver. 1.00	Scan converter

Version of each software is displayed.

System controller :

Version of the main microprocessor is displayed.

Scan converter :

Version of the scan converter (IC207) is displayed.

f) TEST FUNCTION

TEST FUNCTION		
FAN DRIVE	-----	Fan operation
BLUE ONLY	-----	check only
		Blue only

This is the test function.

• Fan operation check only

FAN DRIVE	: AUTO	
DRIVE DATA	: 10783	Drive register data
DRIVE VOLTAGE	: 08.9 [V]	Actual drive voltage

When the FAN DRIVE is changed from AUTO to MANUAL, and ENTER is pressed, the DRIVE DATA indication changes to cyan. In this setup, the drive register value can be manually modified. When the drive register value is changed, the pulse width of the PWM signal in the fan voltage control PWM circuit is changed accordingly.

Fans can be checked whether they operate normally or not by comparing the register value and the actual drive voltage, and by comparing the actual drive voltage and the actual operations of the fans.

Variable range of the drive register value :
00000 to 16383

• Blue only

When Blue only is selected, all of the R, G and B colors become the blue data.

Table 1. EEPROM Configuration

Area	Data Configuration	Standard Value
COMMON	EEPROM ID CODE	Pass code for model ID
	POWER	OFF
	VOLUME	30
	DISPLAY	ON
	CLOSED CAPTION	OFF
	COLOR SYSTEM	AUTO
	SCREEN FILL	CENTER
	POWER SAVING	OFF
	ON/OFF TIMER	OFF
	POWER ON TIME	0
	POWER OFF TIME	0
	PICTURE INVERSION	OFF
	POWER OFF(INVERT)	NO
	PICTURE ORBITING	OFF
	ORBIT RANGE	5dot
	ORBIT CYCLE	10sec
	LANGUAGE	ENGLISH
	INDEX NUMBER	1
	REMOTE MODE	TV
	REMOTE ONLY	OFF
	MODEL NAME	PFM-510A2W/PFM-500A3W
	INPUT CHANNEL	RGB1
	OPERATION TIME	000000H
	SERIAL NUMBER	2000001
	AUTO DIGITAL	ON
	DIGITAL TYPE	RGB
	YUV2 TYPE	RGB
	AUTO PLL SETUP	OFF
	AUTO PLL PIXEL	ON
	H/V SHIFT	EDGE
	VIDEO SHARP SW	ON
	AUTO FT CANCEL	ON
	WATCH ERROR	32768.05
	Y GAIN	111
	R-Y GAIN	82
	B-Y GAIN	128
	R CUTOFF	148
	B CUTOFF	100
	ADC R GAIN	128
	ADC G GAIN	128
	ADC B GAIN	128
	ADC R OFFSET	128
	ADC G OFFSET	128
	ADC B OFFSET	128

Area	Data Configuration	Standard Value
COLOR TEMP	RED GAIN (HIGH)	255
	GREEN GAIN (HIGH)	255
	BLUE GAIN (HIGH)	255
	RED GAIN (LOW)	255
	GREEN GAIN (LOW)	255
	BLUE GAIN (LOW)	255
	RED GAIN (USER1)	255
	GREEN GAIN (USER1)	255
	BLUE GAIN (USER1)	255
	RED GAIN (USER2)	255
	GREEN GAIN (USER2)	255
	BLUE GAIN (USER2)	255
	RED GAIN (USER3)	255
	GREEN GAIN (USER3)	255
	BLUE GAIN (USER3)	255
	RED GAIN (USER4)	255
	GREEN GAIN (USER4)	255
	BLUE GAIN (USER4)	255
	RED GAIN (USER5)	255
	GREEN GAIN (USER5)	255
	BLUE GAIN (USER5)	255
	RED GAIN (USER6)	255
	GREEN GAIN (USER6)	255
	BLUE GAIN (USER6)	255
	NAME (HIGH)	HIGH
	NAME (LOW)	LOW
	NAME (USER1)	1
	NAME (USER2)	2
	NAME (USER3)	3
	NAME (USER4)	4
	NAME (USER5)	5
	NAME (USER6)	6

Area	Data Configuration	Standard Value
PROG.	PRESET AREA 1 (PROGRAM 1)	EMPTY
PRESET	PRESET AREA 2 (PROGRAM 2)	EMPTY
	PRESET AREA 3 (PROGRAM 3)	EMPTY
	PRESET AREA 4 (PROGRAM 4)	EMPTY
	PRESET AREA 5 (PROGRAM 5)	EMPTY
	PRESET AREA 6 (PROGRAM 6)	EMPTY
	PRESET AREA 7 (PROGRAM 7)	EMPTY
	PRESET AREA 8 (PROGRAM 8)	EMPTY
	PRESET AREA 9 (PROGRAM 9)	EMPTY
	PRESET AREA10 (PROGRAM10)	EMPTY
	PRESET AREA11 (PROGRAM11)	EMPTY
	PRESET AREA12 (PROGRAM12)	EMPTY
	PRESET AREA13 (PROGRAM13)	EMPTY
	PRESET AREA14 (PROGRAM14)	EMPTY
	PRESET AREA15 (PROGRAM15)	EMPTY
	PRESET AREA16 (PROGRAM16)	EMPTY
	PRESET AREA17 (PROGRAM17)	EMPTY
	PRESET AREA18 (PROGRAM18)	EMPTY
	PRESET AREA19 (PROGRAM19)	EMPTY
	PRESET AREA20 (PROGRAM20)	EMPTY
FIXED	PRESET AREA21	640 × 350@70
PRESET	PRESET AREA22	640 × 350@85
	PRESET AREA23	640 × 400@85
	PRESET AREA24	640 × 480@60
	PRESET AREA25	MAC13
	PRESET AREA26	640 × 480@72
	PRESET AREA27	640 × 480@75
	PRESET AREA28	640 × 480@85
	PRESET AREA29	720 × 400@70
	PRESET AREA30	720 × 400@85
	PRESET AREA31	800 × 600@56
	PRESET AREA32	800 × 600@60
	PRESET AREA33	800 × 600@72
	PRESET AREA34	800 × 600@75
	PRESET AREA35	800 × 600@85
	PRESET AREA36	MAC16
	PRESET AREA37	1024 × 768@43
	PRESET AREA38	1024 × 768@60
	PRESET AREA39	1024 × 768@70
	PRESET AREA40	1024 × 768@75
	PRESET AREA41	1024 × 768@85
	PRESET AREA42	1152 × 864@75
	PRESET AREA43	MAC21
	PRESET AREA44	1280 × 960@60
	PRESET AREA45	1280 × 960@85

	PRESET AREA46	1280 × 1024@60
	PRESET AREA47	1280 × 1024@75
	PRESET AREA48	1280 × 1024@85
	PRESET AREA49	1600 × 1200@60
	PRESET AREA50	625 × 50I
	PRESET AREA51	525 × 60I
	PRESET AREA52	575 × 50P
	PRESET AREA53	480 × 60P
	PRESET AREA54	1080 × 48I
	PRESET AREA55	1080 × 50I
	PRESET AREA56	1080 × 60I
	PRESET AREA57	1035 × 60I
	PRESET AREA58	720 × 50P
	PRESET AREA59	720 × 60P
	PRESET AREA60	1024 × 1024@60
	PRESET AREA61	852 × 480@60
	PRESET AREA62	1280 × 768@56
	PRESET AREA63	Line Doubler 625 × 50I (YUV)
	PRESET AREA64	Line Doubler 525 × 60I (YUV)
	PRESET AREA65	Line Doubler NTSC (LINE)
	PRESET AREA66	Line Doubler PAL (LINE)
	PRESET AREA67	Line Doubler SECAM (LINE)
	PRESET AREA68	Line Doubler 443NT (LINE)
	PRESET AREA69	Line Doubler PAL60 (LINE)
	PRESET AREA70	Line Doubler NTSC (Y/C)
	PRESET AREA71	Line Doubler PAL (Y/C)
	PRESET AREA72	Line Doubler SECAM (Y/C)
	PRESET AREA73	Line Doubler 443NT (Y/C)
	PRESET AREA74	Line Doubler PAL60 (Y/C)

Area	Data Configuration	Standard Value
LAST MEMORY	PRESET AREA 1 (PROGRAM 1)	EMPTY
	PRESET AREA 2 (PROGRAM 2)	EMPTY
	PRESET AREA 3 (PROGRAM 3)	EMPTY
	PRESET AREA 4 (PROGRAM 4)	EMPTY
	PRESET AREA 5 (PROGRAM 5)	EMPTY
	PRESET AREA 6 (PROGRAM 6)	EMPTY
	PRESET AREA 7 (PROGRAM 7)	EMPTY
	PRESET AREA 8 (PROGRAM 8)	EMPTY
	PRESET AREA 9 (PROGRAM 9)	EMPTY
	PRESET AREA10 (PROGRAM10)	EMPTY
	PRESET AREA11 (PROGRAM11)	EMPTY
	PRESET AREA12 (PROGRAM12)	EMPTY
	PRESET AREA13 (PROGRAM13)	EMPTY
	PRESET AREA14 (PROGRAM14)	EMPTY
	PRESET AREA15 (PROGRAM15)	EMPTY
	PRESET AREA16 (PROGRAM16)	EMPTY
	PRESET AREA17 (PROGRAM17)	EMPTY
	PRESET AREA18 (PROGRAM18)	EMPTY
	PRESET AREA19 (PROGRAM19)	EMPTY
	PRESET AREA20 (PROGRAM20)	EMPTY
	PRESET AREA21	EMPTY
	PRESET AREA22	EMPTY
	PRESET AREA23	EMPTY
	PRESET AREA24	EMPTY
	PRESET AREA25	EMPTY
	PRESET AREA26	EMPTY
	PRESET AREA27	EMPTY
	PRESET AREA28	EMPTY
	PRESET AREA29	EMPTY
	PRESET AREA30	EMPTY
	PRESET AREA31	EMPTY
	PRESET AREA32	EMPTY
	PRESET AREA33	EMPTY
	PRESET AREA34	EMPTY
	PRESET AREA35	EMPTY
	PRESET AREA36	EMPTY
	PRESET AREA37	EMPTY
	PRESET AREA38	EMPTY
	PRESET AREA39	EMPTY
	PRESET AREA40	EMPTY
	PRESET AREA41	EMPTY
	PRESET AREA42	EMPTY
	PRESET AREA43	EMPTY
	PRESET AREA44	EMPTY
	PRESET AREA45	EMPTY

	PRESET AREA46	EMPTY
	PRESET AREA47	EMPTY
	PRESET AREA48	EMPTY
	PRESET AREA49	EMPTY
	PRESET AREA50	EMPTY
	PRESET AREA51	EMPTY
	PRESET AREA52	EMPTY
	PRESET AREA53	EMPTY
	PRESET AREA54	EMPTY
	PRESET AREA55	EMPTY
	PRESET AREA56	EMPTY
	PRESET AREA57	EMPTY
	PRESET AREA58	EMPTY
	PRESET AREA59	EMPTY
	PRESET AREA60	EMPTY
	PRESET AREA61	EMPTY
	PRESET AREA62	EMPTY
	PRESET AREA63	EMPTY
	PRESET AREA64	EMPTY
	PRESET AREA65	EMPTY
	PRESET AREA66	EMPTY
	PRESET AREA67	EMPTY
	PRESET AREA68	EMPTY
	PRESET AREA69	EMPTY
	PRESET AREA70	EMPTY
	PRESET AREA71	EMPTY
	PRESET AREA72	EMPTY
	PRESET AREA73	EMPTY
	PRESET AREA74	EMPTY

Area	Data Configuration	Standard Value
USER	MEMORY No.1	EMPTY
	MEMORY No.2	EMPTY
MEMORY	MEMORY No.3	EMPTY
	MEMORY No.4	EMPTY
	MEMORY No.5	EMPTY
	MEMORY No.6	EMPTY
	MEMORY No.7	EMPTY
	MEMORY No.8	EMPTY
	MEMORY No.9	EMPTY
	MEMORY No.10	EMPTY
	MEMORY No.11	EMPTY
	MEMORY No.12	EMPTY
	MEMORY No.13	EMPTY
	MEMORY No.14	EMPTY
	MEMORY No.15	EMPTY
	MEMORY No.16	EMPTY
	MEMORY No.17	EMPTY
	MEMORY No.18	EMPTY
	MEMORY No.19	EMPTY
	MEMORY No.20	EMPTY
	NAME (No.1)	• • • • •
	NAME (No.2)	• • • • •
	NAME (No.3)	• • • • •
	NAME (No.4)	• • • • •
	NAME (No.5)	• • • • •
	NAME (No.6)	• • • • •
	NAME (No.7)	• • • • •
	NAME (No.8)	• • • • •
	NAME (No.9)	• • • • •
	NAME (No.10)	• • • • •
	NAME (No.11)	• • • • •
	NAME (No.12)	• • • • •
	NAME (No.13)	• • • • •
	NAME (No.14)	• • • • •
	NAME (No.15)	• • • • •
	NAME (No.16)	• • • • •
	NAME (No.17)	• • • • •
	NAME (No.18)	• • • • •
	NAME (No.19)	• • • • •
	NAME (No.20)	• • • • •

Table 2. Factory Preset Data

AREA	21	22	23	24	25	26	27	28
NAME	VGA-1	VESA640x350	VESA640x400	VGA	Mac13"	VESA640x480@72	VESA640x480@75	VESA640x480@85
ASPECT	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3
SHARPNES	MID	MID	MID	MID	MID	MID	MID	MID
TOTAL H PIXEL	800	832	832	800	864	832	840	832

AREA	29	30	31	32	33	34	35	36
NAME	VGA (TEXT)	VESA720x400@85	VESA800x600@56	VESA800x600@60	VESA800x600@72	VESA800x600@75	VESA800x600@85	Mac16"
ASPECT	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3
SHARPNES	MID	MID	MID	MID	MID	MID	MID	MID
TOTAL H PIXEL	900	936	1024	1056	1040	1056	1048	1152

AREA	38	39	40	41	42	43	44	45
NAME	VESA1024x768@60	VESA1024x768@70	VESA1024x768@75	VESA1024x768@85	VESA1152x864@75	Mac21"	VESA1280x960@60	VESA1280x960@85
ASPECT	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3
SHARPNES	MID	MID	MID	MID	MID	MID	MID	MID
TOTAL H PIXEL	1344	1328	1312	1376	1600	1456	1800	1728

AREA	46	47	48	49	50	51	52	53
NAME	VESA1280x1024@60	VESA1280x1024@75	VESA1280x1024@85	VESA1600x1200@60	PAL	NTSC	575/50P	480/60P
ASPECT	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3	4 × 3
SHARPNES	MID	MID	MID	MID	LOW	LOW	MID	MID
TOTAL H PIXEL	1688	1688	1728	2160	—	—	1266	800

AREA	54	55	56	59
NAME	1080/48I	1080/50I	1080/60I	720/60P
ASPECT	16 × 9	16 × 9	16 × 9	16 × 9
SHARPNES	MID	MID	MID	MID
TOTAL H PIXEL	1462	1410	1190	1650

Table 3. Preset Timing

AREA	21		22		23		24		25		26		27		28	
NAME	VGA-1		VESA640x350		VESA640x400		VGA		Mac13"		VESA640x480@72		VESA640x480@75		VESA640x480@85	
RESOLUTION	640 × 350		640 × 350		640 × 400		640 × 480		640 × 480		640 × 480		640 × 480		640 × 480	
CLOCK	25.175	MHz	31.5	MHz	31.5	MHz	25.175	MHz	30.24	MHz	31.5	MHz	31.5	MHz	36	MHz
HORIZONTAL																
H.FREQ	31.469	kHz	37.861	kHz	37.861	kHz	31.469	kHz	35	kHz	37.861	kHz	37.5	kHz	43.269	kHz
	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots
H.TOTAL	31.77	800	26.413	832	26.413	832	31.778	800	28.571	864	26.413	832	26.667	840	23.111	832
H.BLK	6.356	160	6.09	192	6.095	192	6.356	160	7.407	224	6.096	192	6.35	200	5.334	192
H.FP	0.318	8	1.015	32	1.016	32	0.636	16	2.116	64	0.762	24	0.508	16	1.556	56
H.SYNC	3.813	96	2.032	64	2.032	64	3.813	96	2.116	64	1.27	40	2.032	64	1.556	56
H.BP	2.225	56	3.048	96	3.048	96	1.907	48	3.175	96	4.064	16	3.81	120	2.222	80
H.ACTIVE	25.422	640	20.317	640	20.317	640	25.422	640	21.164	640	20.317	640	20.317	640	17.778	640
VERTICAL																
V.FREQ	70.086	Hz	85.08	Hz	85.08	Hz	59.94	Hz	66.67	Hz	72.809	Hz	75	Hz	85.008	Hz
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	14.265	449	11.754	445	11.754	445	16.683	525	15	525	13.735	520	13.333	500	11.764	509
V.BLK	3.145	99	2.509	95	1.189	45	1.43	45	1.286	45	1.055	40	0.534	20	0.67	29
V.FP	0.984	31	0.845	32	0.026	1	0.318	10	0.086	3	0.237	9	0.027	1	0.023	1
V.SYNC	0.063	2	0.079	3	0.079	3	0.064	2	0.086	3	0.079	3	0.08	3	0.069	3
V.BP	2.097	66	1.585	60	1.083	41	1.049	33	1.114	39	0.739	28	0.427	16	0.578	25
V.ACTIVE	11.119	350	9.243	350	10.565	400	15.253	480	13.714	480	12.678	480	12.8	480	11.093	480
SYNC																
SOG									YES							
EXT(H/V)	(+/−)		(+/−)		(−/+)		(−/−)		(−/−)		(−/−)		(−/−)		(−/−)	
EXT(COMP)																
COMP VIDEO																
VIDEO LEVEL	0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V	
SYNC LEVEL	TTL		TTL		TTL		TTL		TTL		TTL		TTL		TTL	

AREA	29		30		31		32		33		34		35		36	
NAME	VGA(TEXT)		VESA720x400@85		VESA800x600@56		VESA800x600@60		VESA800x600@72		VESA800x600@75		VESA800x600@85		Mac16"	
RESOLUTION	720 × 400		720 × 400		800 × 600		800 × 600		800 × 600		800 × 600		800 × 600		832 × 624	
CLOCK	28.332	MHz	35.5	MHz	36	MHz	40	MHz	50	MHz	49.5	MHz	56.25	MHz	57.285	MHz
HORIZONTAL																
H.FREQ	31.469	kHz	37.927	kHz	35.156	kHz	37.879	kHz	48.077	kHz	46.875	kHz	53.674	kHz	49.727	kHz
	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots
H.TOTAL	31.766	900	26.366	936	28.444	1024	26.4	1056	20.8	1040	21.333	1056	18.631	1048	20.11	1152
H.BLK	6.353	180	6.084	216	6.223	224	6.4	256	4.8	240	5.171	256	4.409	248	5.586	320
H.FP	0.635	18	1.014	36	0.667	24	1	40	1.12	56	0.323	16	0.569	32	0.559	32
H.SYNC	3.812	108	2.028	72	2	72	3.2	128	2.4	120	1.616	80	1.138	64	1.117	64
H.BP	1.906	54	3.042	108	3.556	128	2.2	88	1.28	64	3.232	160	2.702	152	3.91	224
H.ACTIVE	25.413	720	20.282	720	22.222	800	20	800	16	800	16.162	800	14.222	800	14.524	832
VERTICAL																
V.FREQ	70.111	Hz	85.039	Hz	56.25	Hz	60.317	Hz	72.188	Hz	75	Hz	85.061	Hz	74.553	Hz
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	14.263	449	11.759	446	17.778	625	16.579	628	13.853	666	13.333	625	11.756	631	13.413	667
V.BLK	1.557	49	1.212	46	0.711	25	0.739	28	1.373	66	0.533	25	0.578	31	0.865	43
V.FP	0.381	12	0.026	1	0.028	1	0.026	1	0.77	37	0.021	1	0.019	1	0.06	3
V.SYNC	0.064	2	0.079	3	0.057	2	0.106	4	0.125	6	0.064	3	0.056	3	0.06	3
V.BP	1.112	35	1.107	42	0.626	22	0.607	23	0.478	23	0.448	21	0.503	27	0.744	37
V.ACTIVE	12.706	400	10.546	400	17.067	600	15.84	600	12.48	600	12.8	600	11.179	600	12.549	624
SYNC																
SOG																
EXT(H/V)	(-/+)		(-/+)		(+/+)		(+/+)		(+/+)		(+/+)		(+/+)		(-/-)	
EXT(COMP)																
COMP VIDEO																
VIDEO LEVEL	0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V	
SYNC LEVEL	TTL		TTL		TTL		TTL		TTL		TTL		TTL		TTL	

AREA	38		39		40		41		42		43		44		45	
NAME	VESA1024x768@60		VESA1024x768@70		VESA1024x768@75		VESA1024x768@85		VESA1152x864@75		Mac21"		VESA1280x960@60		VESA1280x960@85	
RESOLUTION	1024 × 768		1024 × 768		1024 × 768		1024 × 768		1152 × 864		1152 × 870		1280 × 960		1280 × 960	
CLOCK	65	MHz	75	MHz	78.75	MHz	94.5	MHz	108	MHz	100	MHz	108	MHz	148.5	MHz
HORIZONTAL																
H.FREQ	48.363	kHz	56.476	kHz	60.023	kHz	68.677	kHz	67.5	kHz	68.681	kHz	60	kHz	85.938	kHz
	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots
H.TOTAL	20.677	1344	17.707	1328	16.66	1312	14.561	1376	14.815	1600	14.56	1456	16.667	1800	11.636	1728
H.BLK	4.923	320	4.053	304	3.657	288	3.725	352	4.148	448	3.04	304	4.815	520	3.016	448
H.FP	0.369	24	0.32	24	0.203	16	0.508	48	0.593	64	0.32	32	0.889	96	0.431	64
H.SYNC	2.092	136	1.813	136	1.219	96	1.016	96	1.185	128	1.28	128	1.037	112	1.077	160
H.BP	2.462	160	1.92	144	2.235	176	2.201	208	2.37	256	1.44	144	2.889	312	1.508	224
H.ACTIVE	15.754	1024	13.653	1024	13.003	1024	10.836	1024	10.667	1152	11.52	1152	11.852	1280	8.62	1280
VERTICAL																
V.FREQ	60.004	Hz	70.069	Hz	75.029	Hz	84.997	Hz	75	Hz	75.061	Hz	60	Hz	85.002	Hz
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	16.666	806	14.272	806	13.328	800	11.765	808	13.333	900	13.323	915	16.667	1000	11.764	1011
V.BLK	0.786	38	0.672	38	0.533	32	0.583	40	0.533	36	0.655	45	0.667	40	0.594	51
V.FP	0.062	3	0.053	3	0.017	1	0.015	1	0.015	1	0.044	3	0.017	1	0.012	1
V.SYNC	0.124	6	0.106	6	0.05	3	0.044	3	0.044	3	0.044	3	0.05	3	0.035	3
V.BP	0.6	29	0.513	29	0.466	28	0.524	36	0.474	32	0.568	39	0.6	36	0.547	47
V.ACTIVE	15.88	768	13.599	768	12.795	768	11.183	768	12.8	864	12.67	870	16	960	11.171	960
SYNC																
SOG																
EXT(H/V)	(-/-)		(-/-)		(+/+)		(+/+)		(+/+)		(-/-)		(+/+)		(+/+)	
EXT(COMP)																
COMP VIDEO																
VIDEO LEVEL	0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V	
SYNC LEVEL	TTL		TTL		TTL		TTL		TTL		TTL		TTL		TTL	

AREA	46		47		48		49		50		51	
NAME	VESA1280x1024@60		VESA1280x1024@75		VESA1280x1024@85		VESA1600x1200@60		PAL		NTSC	
RESOLUTION	1280 × 1024		1280 × 1024		1280 × 1024		1600 × 1200		932 × 573		753 × 483	
CLOCK	108	MHz	135	MHz	157.5	MHz	162	MHz	17.75	MHz	14.318	MHz
HORIZONTAL												
H.FREQ	63.981	kHz	79.976	kHz	91.146	kHz	75	kHz	15.625	kHz	15.734	kHz
	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots
H.TOTAL	15.63	1688	12.504	1688	10.971	1728	13.333	2160	64	1136	63.556	910
H.BLK	3.777	408	3.023	408	2.844	448	3.457	560	12	213	10.9	156
H.FP	0.444	48	0.119	16	0.406	64	0.395	64	1.5	26	1.5	22
H.SYNC	1.037	112	1.067	144	1.016	160	1.185	192	4.7	84	4.7	67
H.BP	2.296	248	1.837	248	1.422	224	1.877	304	5.8	103	4.7	67
H.ACTIVE	11.852	1280	9.481	1280	8.127	1280	9.877	1600	52	923	52.656	754
VERTICAL												
V.FREQ	60.02	Hz	75.025	Hz	85.024	Hz	60	Hz	50	Hz	59.94	Hz
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	16.661	1066	13.329	1066	11.761	1072	16.667	1250	20	312.5	16.683	262.5
V.BLK	0.657	42	0.526	42	0.527	48	0.666	50	1.632	25.5	1.303	20.5
V.FP	0.016	1	0.013	1	0.011	1	0.013	1	0.192	3	0.254	4
V.SYNC	0.047	3	0.038	3	0.033	3	0.04	3	0.16	2.5	0.191	3
V.BP	0.594	38	0.475	38	0.483	44	0.613	46	1.28	20	0.858	13.5
V.ACTIVE	16.005	1024	12.804	1024	11.235	1024	16	1200	18.368	287	15.381	245
SYNC												
SOG												
EXT(H/V)	(+/+)		(+/+)		(+/+)		(+/+)					
EXT(COMP)												
COMP VIDEO									YES		YES	
VIDEO LEVEL	0.714V		0.714V		0.714V		0.714V		0.700V		0.714V	
SYNC LEVEL	TTL		TTL		TTL		TTL		0.300V		0.286V	

3-3. White Balance Adjustment

1. Switch the WINDOW to either TYPE1 or TYPE2.
2. Select the COLOR TEMP “HIGH”.
3. Select RED GAIN and GREEN GAIN. Perform the white balance adjustment until the color temperature satisfies the specifications of 9300 K.
Set BLUE GAIN to 255 normally.
4. Select the COLOR TEMP “LOW”.
5. Set BLUE GAIN to 223. Then select RED GAIN and GREEN GAIN. Perform the white balance adjustment until the color temperature satisfies the specifications of 6500 K.

Note : When the white balance at 6500 K cannot be obtained by any means, decrement the BLUE GAIN by 16 steps and repeat the adjustment of step 5).

6. Switch the WINDOW to OFF.

3-4. A/D Calibration Adjustment

Note : When the part number of the B board and that of B1 board has the suffix of -11, replace the B1 board with the jig board as shown in the following figure (a).

1. Connect the VGA (640 × 480@60) signal to the RGB1 input connector.
2. Select the video signal of the 10 % flat field pattern.
3. Set the CAL mode to ON.
4. Check the following values that are shown in the bottom of the menu in cyan.
R : XXX / G : XXX / B : XXX
Adjust RED BIAS and BLUE BIAS until the following two equations are satisfied.
 $(G \text{ value} - 1) \leq R \text{ value} \leq (G \text{ value} + 1)$
and
 $(G \text{ value} - 1) \leq B \text{ value} \leq (G \text{ value} + 1)$
(Do not adjust GREEN BIAS.)
5. Select the video signal of the maximum brightness 90 % gray scale pattern.
(Select the gray scale pattern that has the left half of display in black and the right half of display in white.)
6. Check the following values that are shown in the bottom of the menu in cyan.
R : XXX / G : XXX / B : XXX
Adjust RED BIAS and BLUE BIAS until the following two equations are satisfied.
 $(G \text{ value} - 1) \leq R \text{ value} \leq (G \text{ value} + 1)$
and
 $(G \text{ value} - 1) \leq B \text{ value} \leq (G \text{ value} + 1)$
(Do not adjust GREEN BIAS.)
7. Set the CAL mode to OFF.

B1 jig board (The B1 jig board is necessary for the B/B1 board that has part number with suffix of -11.)

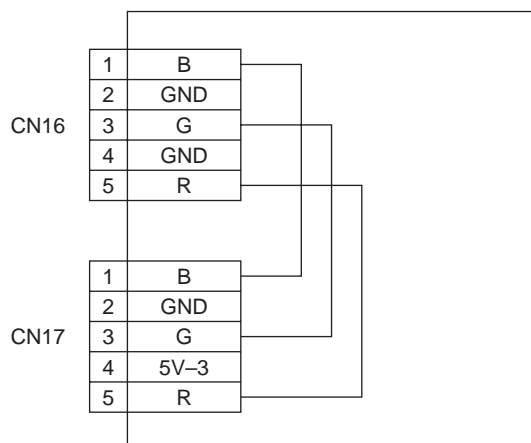


Fig. (a)

3-5. Video Processor Adjustment

YUV Level Check and Adjustment

1. Connect the 525/60 signal to the YUV input connector.
2. Select the color bar signal.
3. Measure the voltage waveform at pin-14 of IC1003 with an oscilloscope. Confirm that the video signal excluding sync signal has the following amplitude.
 $660 \text{ mV} \pm 5 \%$
(If the video signal excluding sync is outside the specifications, adjust the video signal level using the Y GAIN.)
4. Measure the voltage waveform at pin-15 of IC1003 with an oscilloscope. Confirm that the R-Y signal has the following amplitude.
 $580 \text{ mV} \pm 5 \%$
(If the R-Y signal is outside the specifications, adjust the R-Y signal level using the R-Y GAIN.)
5. Measure the voltage waveform at pin-4 of IC1003 with an oscilloscope. Confirm that the B-Y signal has the following amplitude.
 $700 \text{ mV} \pm 5 \%$
(If the B-Y signal is outside the specifications, adjust the B-Y signal level using the B-Y GAIN.)

Cutoff Adjustment

1. Connect the Y signal of the 525/60 signal to the Y input only of the YUV input connector.
2. Select the gray scale signal.
3. Observe the dark area of display screen. Adjust R CUTOFF and B CUTOFF until the dark area has completely no color at all.

3-6. Watch Error Adjustment

1. Connect the jig circuit as shown in Fig. (b) and a frequency counter to the B board CN18.
2. Enter the measurement value on a frequency counter in the WATCH ERROR.

WATCH ERROR Jig Circuit

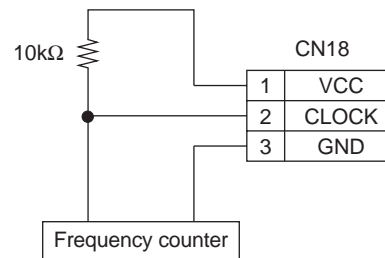


Fig. (b)

3-7. Switching Regulator (APS-132 M/136 M Board) Adjustments

3-7-1. Preparation

1. Remove the switching regulator from the set, and adjust it under no load.
2. If adjusting the switching regulator with each output loaded, set as follows.

• Load on each output

Output	Pin No.	MIN	MAX
VCC	CN4 ① pin	1.0 A	5.0 A
VS	CN5 ② pin	0.5 A	1.7 A
VA	CN5 ⑤ pin	0.5 A	1.5 A
AUDIO +B	CN6 ③ pin	0.05 A	1.0 A
STBY +5 V	CN7 ② pin	0.2 A	0.3 A
5VD	CN7 ⑤ pin	1.2 A	1.8 A
6.2 V	CN7 ⑧ pin	0.6 A	1.0 A
13.5 V	CN7 ⑫ pin	0.5 A	1.0 A
13 V	CN7 ⑭ pin	0.4 A	1.0 A

3-7-2. 13 V System Minimum Frequency Adjustment

1. Apply 18 V DC to both ends of C169.
2. Connect a frequency counter between gate and source of Q153.

Note : As the input of frequency counter, use 10 : 1 oscilloscope probes and raise the input impedance.

3. Adjust the RV150 so that the oscillation frequency is 93 ± 0.5 kHz.

3-7-3. VS System Minimum Frequency Adjustment

1. Short between pin-3 and pin-4 of PH501.
2. Apply 18 V DC to both ends of C169.
3. Connect a frequency counter between gate and source of Q503.

Note : As the input of frequency counter, use 10 : 1 oscilloscope probes and raise the input impedance.

4. Adjust the RV500 so that the oscillation frequency is 49 ± 0.5 kHz.

3-7-4. VA System Minimum Frequency Adjustment

1. Short between pin-3 and pin-4 of PH701.
2. Apply 18 V DC to both ends of C169.
3. Connect a frequency counter between gate and source of Q703.

Note : As the input of frequency counter, use 10 : 1 oscilloscope probes and raise the input impedance.

4. Adjust the RV700 so that the oscillation frequency is 65 ± 0.5 kHz.

3-7-5. PFC Voltage Adjustment

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON. (short between CN7 pin-1 and pin-2).
4. Adjust the RV300 so that the voltage across C115 is 385 ± 2 V.

3-7-6. 5 V Adjustment

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Adjust the RV201 so that the voltage of STBY +5 V output (between CN7 pin-2 and pin-6) is 5.12 ± 0.03 V.

3-7-7. 13.5 V Adjustment

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON. (short between CN7 pin-1 and pin-2).
4. Adjust the RV250 so that the voltage of 13.5 V output (between CN7 pin-12 and pin-11) satisfies the following specifications.

Specification value

PFM-500A3W : 13.95 ± 0.05 V

PFM-510A2W : 13.7 ± 0.05 V

3-7-8. VS Adjustment

1. Open the load on VS and VA outputs, and set the load on the other outputs to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
4. Apply 0 V DC to the VRS (CN4 pin-3).
Use CN4 pin-4 as GND.
5. Adjust the RV402 so that the voltage of VS output (between CN5 pin-2 and pin-6) is about 149 V.
6. Adjust the RV400 so that the voltage satisfies the following specifications.
Specification value
PFM-500A3W : 164.3 V
PFM-510A2W : 149.2 V
7. Adjust the RV402 so that the voltage satisfies the following specifications.
Specification value
PFM-500A3W : 165 ± 0.1 V
PFM-510A2W : 150 ± 0.1 V
8. Apply 2 V DC to the VRS.
9. Check that the voltage satisfies the following specifications. If the measured value is out of the range, repeat the above steps from 4, where in step 6, shift the adjustment value a little, then check the voltage.
Specification value
PFM-500A3W : 185 ± 0.3 V
PFM-510A2W : 170 ± 0.3 V

3-7-9. VS OCP (Only PFM-510A2W)

1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
4. Apply 0 V DC to the VRS (CN4 pin-3).
Use CN4 pin-4 as GND.
5. Connect a voltmeter to the VS output (between CN5 pin-2 and pin-6).
6. Set the load on VS output to 3.8 A, and rotate the RV401 until the output voltage varies.

Note : Be careful, not to turn excessively, because power can not be obtained.

3-7-10. VA Adjustment

1. Open the load on VS and VA outputs, and set the load on the other outputs to the minimum.
 2. Apply 100 V AC.
 3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
 4. Apply 0 V DC to the VRA (CN4 pin-5).
Use CN4 pin-6 as GND.
 5. Adjust the RV602 so that the voltage of VA output (between CN5 pin-5 and pin-1) is about 49 V.
 6. Adjust the RV600 so that the voltage satisfies the following specifications.
Specification value
PFM-500A3W : 54.5 V
PFM-510A2W : 49.2 V
 7. Adjust the RV602 so that the voltage satisfies the following specifications.
Specification value
PFM-500A3W : 55 ± 0.1 V
PFM-510A2W : 50 ± 0.1 V
 8. Apply 2 V DC to the VRA.
 9. Check that the voltage satisfies the following specifications. If the measured value is out of the range, repeat the above steps from 4, where in step 6, shift the adjustment value a little, then check the voltage.
- Note : As the output voltage varies according to the voltage applied to the VRA, do not shift the applied voltage (2 V DC).
- Specification value
PFM-500A3W : 65 ± 0.3 V
PFM-510A2W : 70 ± 0.3 V

3-7-11. VA OCP (Only PFM-510A2W)

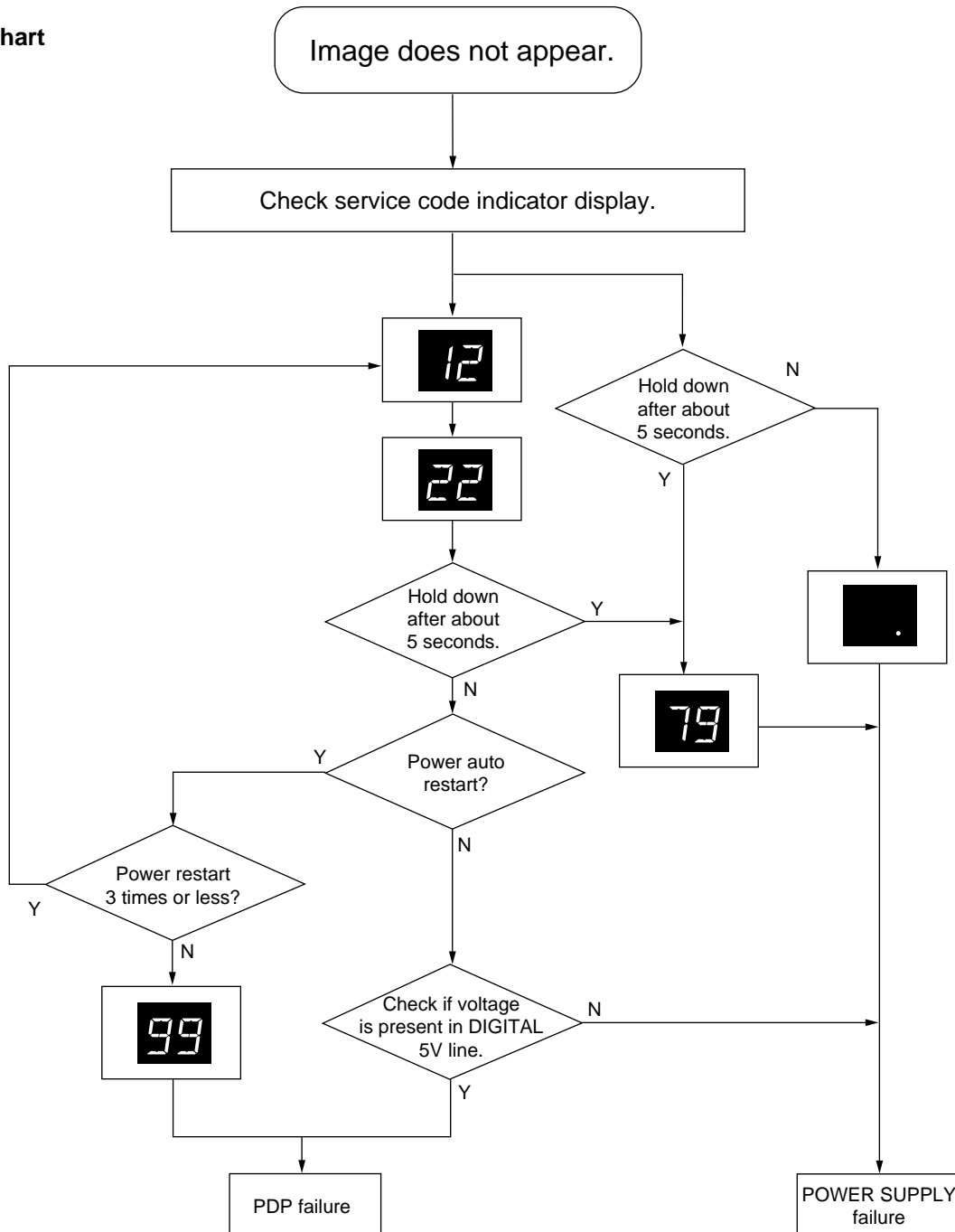
1. Set the load on each output to the minimum.
2. Apply 100 V AC.
3. Turn the STBY signal ON (short between CN7 pin-1 and pin-2), and also the VRR signal ON (short between CN4 pin-7 and CN7 pin-2).
4. Apply 0 V DC to the VRA (CN4 pin-5).
Use CN4 pin-6 as GND.
5. Connect a voltmeter to the VA output (between CN5 pin-5 and pin-1).
6. Set the load on VA output to 4.4 A, and rotate the RV601 until the output voltage varies.

Note : Be careful, not to turn excessively, because power can not be obtained.

Section 4 Trouble Shooting

4-1. Judging Method When Image Does Not Appear

1. Flow chart



2. How to find PDP unit trouble

- 1) The power must be supplied normally to the PDP unit. This power is supplied through two black 8-pin connectors from the power unit. The kinds of power supply are 160 V line, 60 V line, and 5 V line.

- 2) As input signals, H.SYNC (negative polarity), V.SYNC (negative polarity), BLANKING (negative polarity), CLOCK and RGB digital data (8 bit × 3) must be entered normally and DISPEN must be “high”.

If no images appears through the above conditions are satisfied, the PDP unit will be defective.

4-2. Self Diagnosis Function

4-2-1. Outline

The PFM-500A3W/510A2W has the self diagnosis function using A/D converter to detect the power supply analog voltages, 8 channels of temperature sensor, fan operations, power unit temperature, DC voltage status, and to check the EEPROM and the watch register. When any abnormality occurs or defect is detected, the Error Code appears on the service code indicator of the power supply block, the standby indicator on the control panel flashes and the detected data is displayed on the service menu [STATUS/TEST] block. If the abnormal status exceeds the allowable limit, the PFM-500A3W/510A2W is forced to shut down.

The detection items are shown as follows.

1. Increase and decrease of the panel DC voltage Vs is detected.
2. Increase and decrease of the panel DC voltage Va is detected.
3. Increase of temperature at the side of the power block in the top of the panel is detected and shut down of the machine.
4. Increase of temperature at the center in the top of the panel is detected and shut down of the machine.
5. Increase of temperature at the side of the input connector block in the top of the panel is detected and shut down of the machine.
6. Detection of outside environment temperature.
7. Detection of fan stop and that of drive circuit failure.
* Three fans at the top of the panel and two fans for power supply.
8. Detection of temperature rise in the power supply block.
9. Shut down when the 5 V for internal digital circuit has abnormality.
10. Detection of failure of the EEPROM.
11. Detection of abnormality in communication with scan converter.
12. Detection of failure in the ON/OFF control of power supply.
13. Detection of decreased backup power supply voltage for watch and detection of abnormality in oscillator.
14. Detection of PDP failure using the combination of the voltage detection and shut down of the machine.

4-2-2. Criteria for Judgment of Abnormality

1. Increase and decrease of the panel DC voltage Vs is detected.
(Name of this function on the service menu :
POWER SUPPLY - PDP VS)
 - PFM-510A2W
The normal operating range is + 160 V + 24 V/− 22 V.
Warning of increase of the voltage Vs when 184 V or more : Service code [11]
Warning of decrease of the voltage Vs when 138 V or less : Service code [12]
 - PFM-500A3W
The normal operating range is + 175 V + 26 V/− 23 V.
Warning of increase of the voltage Vs when 201 V or more : Service code [11]
Warning of decrease of the voltage Vs when 152 V or less : Service code [12]
2. Increase and decrease of the panel DC voltage Va is detected.
(Name of this function on the service menu :
POWER SUPPLY - PDP VA)
The normal operating range is + 60 V + 15 V/− 14 V.
Warning of increase of the voltage Va when 75 V or more : Service code [21]
Warning of decrease of the voltage Va when 46 V or less : Service code [22]
3. Increase of temperature at the side of the power block in the top of the panel is detected and shut down of the machine.
(Name of this function on the service menu :
TEMPERATURE - P/S BLOCK SIDE)
The normal operating range is up to 57 °C.
Warning of high temperature when 58 °C or higher : Service code [31]
Shut down at the temperature of 68 °C or higher : Service code [39]
4. Increase of temperature at the center in the top of the panel is detected and shut down of the machine.
(Name of this function on the service menu :
TEMPERATURE - CENTER)
The normal operating range is up to 55 °C.
Warning of high temperature when 56 °C or higher : Service code [A1]
Shut down at the temperature of 66 °C or higher : Service code [A9]
5. Increase of temperature at the side of the input connector block in the top of the panel is detected and shut down of the machine.
(Name of this function on the service menu :
TEMPERATURE - I/O BLOCK SIDE)
The normal operating range is up to 53 °C.
Warning of high temperature when 54 °C or higher : Service code [41]
Shut down at the temperature of 64 °C or higher : Service code [49]

6. Detection of outside environment temperature
(Name of this function on the service menu :
TEMPERATURE - AMBIENT TEMP)
Occurrence of abnormality and fault is judged solely
from the internal temperature of the PFM-500A3W/
510A2W. Measurement of the ambient temperature
aims mainly at the confirmation of the operating
environment. Therefore, there is no chance to indicate
this warning message.
Warning of high temperature at 60 °C or higher :
Service code [F1]
7. Detection of fan stop and that of drive circuit failure.
 - Detection if fan is stopped or not.
(Name of this function on the service menu : FAN - I/O
BLOCK SIDE, CENTER, P/S BLOCK SIDE, No. 1, No. 2)
Status of the respective fans are displayed as OK or
NG on the service menu STATUS.
 - Fan of the power supply block at the top of the rear
of the machine : Service code [55]
 - Fan in the center of the top on the rear of the ma-
chine : Service code [54]
 - Fan on the input terminal at the top on the rear of the
machine : Service code [53]
 - Two fans of the power supply block :
Service code [52]
or [51]
 - Detection of fan drive circuit failure
(Name of this function on the service menu :
FAN - DRIVE CIRCUIT)
The warning when the fan drive data is 6 V or more
and the actual drive voltage is 2 V or less :
Service code [58]
8. Detection of temperature rise in the power supply block.
(Name of this function on the service menu :
TEMPERATURE - P/S INTERNAL)
Warning of high temperature when temperature of the
heat sink for main converter inside the power supply
unit exceeds the allowable limit : Service code [61]
9. Shut down when the 5 V for internal digital circuit has
abnormality.
(Name of this function on the service menu :
POWER SUPPLY - DIGITAL 5V)
The voltage that is input to pin-62 of the system
controller (IC252) is detected.
Shut down when there is no input voltage :
Service code [79]
10. Detection of failure of the EEPROM.
(Name of this function on the service menu : Nil)
Warning when communication with EEPROM cannot
be performed normally.
EEPROM ID code error : Service code [81]
EEPROM data write error : Service code [82]
EEPROM data read error : Service code [83]
EEPROM failure : Service code [85]
11. Detection of abnormality in communication with scan
converter.
(Name of this function on the service menu : Nil)
Warning when communication with scan converter
cannot be performed normally.
EEPROM ID code error : Service code [91]
12. Detection of failure in the ON/OFF control of power
supply.
(Name of this function on the service menu : Nil)
When the digital 5 V power does not decrease even in
the STBY state, the machine enters the POWR ON
state automatically : Service code [98]
13. Detection of decreased voltage of the backup power
supply for watch and detection of abnormality of
oscillator.
(Name of this function on the service menu : Nil)
Normal/abnormal is detected from the register value
inside the watch IC.
Initialization of time due to abnormal register value :
Service code [B1]
Warning of low voltage of backup power supply :
Service code [B2]
Warning that crystal oscillator for watch has stopped :
Service code [B3]
14. Detection of PDP failure using the combination of the
voltage detection and shut down of the machine.
(Name of this function on the service menu : Nil)
PDP is suspected to be defective when DIGITAL 5 V
is normal among the voltages (VS, VA, DIGITAL 5
V) required to drive PDP while both VS and VA are
not inputted.
When all the following conditions are satisfied, the
machine enters once to the STANDBY mode then turn
the main power back on again.
 - 1) DC 180 V power is 40 V or less.
 - 2) DC 70 V power is 20 V or less.
 - 3) DIGITAL 5 V is normal.
 The above-described operation is repeated three times.
If the above three conditions are still satisfied, the PDP
is judged to be faulty and the main power is shut
down.
Service code [99]

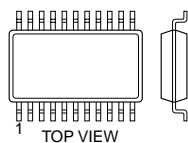
4-3. Error Code Table

Error Code on Display	Abnormal/Defective State	Name of Function	
11	Warning of increase of panel high voltage (Vs)	POWER SUPPLY	PDP VS
12	Warning of decrease of panel high voltage (Vs)	POWER SUPPLY	PDP VS
21	Warning of increase of panel middle voltage (Va)	POWER SUPPLY	PDP VA
22	Warning of decrease of panel middle voltage (Va)	POWER SUPPLY	PDPVA
31	Warning of increase of temperature at the power supply block in the top of the panel	TEMPERATURE	P/S BLOCK SIDE
39	Power shut down due to increase of temperature at the power supply block in the top of the panel	TEMPERATURE	P/S BLOCK SIDE
A1	Warning of increase of temperature at the center of the top of the panel	TEMPERATURE	CENTER
A9	Power shut down due to increase of temperature at the center of the top of the panel	TEMPERATURE	CENTER
41	Warning of increase of temperature at the input/output block of the top of the panel	TEMPERATURE	I/O BLOCK SIDE
49	Power shut down due to increase of temperature at the input/output block of the top of the panel	TEMPERATURE	I/O BLOCK SIDE
51	Warning of stoppage of air intake fan-1 of the power supply block	FAN	No.1
52	Warning of stoppage of air intake fan-2 of the power supply block	FAN	No.2
53	Warning of stoppage of fan at the input/output block of the panel top	FAN	I/O BLOCK SIDE
54	Warning of stoppage of fan at the center of the panel top	FAN	CENTER
55	Warning of stoppage of fan of the power supply block in the top of the panel	FAN	P/S BLOCK SIDE
58	Failure of fan drive circuit	FAN	DRIVE CIRCUIT
79	Power shut down due to decrease of DIGITAL 5 V		
81	EEPROM ID error		
82	EEPROM write error		
83	EEPROM read error		
85	EEPROM is defective		
91	Communication with scan converter is defective		
98	Failure that voltage does not decrease at POWER OFF		
99	Panel is defective		
B1	Warning of initialization of time data due to watch control error		
B2	Decrease of the backup power voltage for watch		
B3	Oscillator for watch is defective		
F1	Warning of increase of ambient temperature		

Section 5

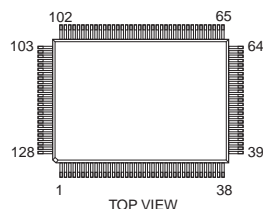
Semiconductors

24LC21T/SN
BA10358F-T2
CXA1211M-T4
LM1881MX
M24C04-WMN6T
M24C64-WMN6T
MM1113XFBF
NJM2903M-T2
NJM2904E(Te2)
ST49C101ACF8-05-TR
TC4W53FU(Te12R)
TC4W66F(Te12R)
TC7W126FU(Te12R)
TL026CPS-E05
μPC358G2-T1

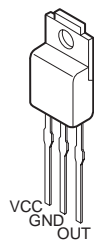


8pin SOP

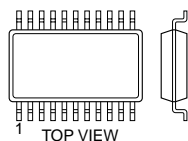
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BA033FP-E2

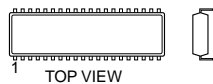


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TA8184F(EL)



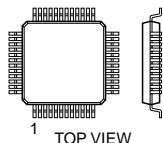
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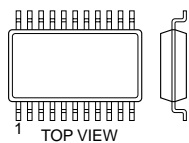
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CXA1860Q-T4
CXD2300Q-T4



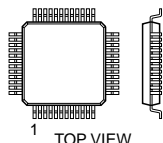
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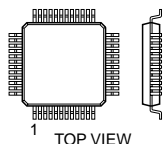
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CXD2030R



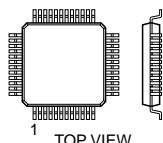
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CXD2090Q



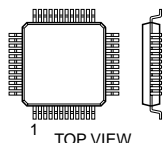
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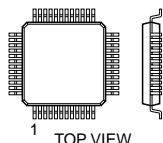
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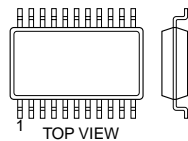
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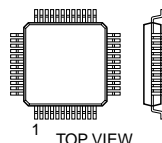
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MAX202CSE-T
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MC74HC4538AF-T1
MC74HC595AF-T2
TC74HC123AF(EL)
TC74HC157AF(EL)
TC74HC4053AF(EL)



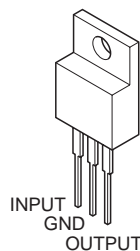
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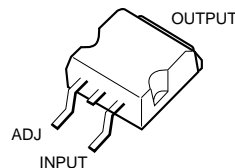


128pin QFP

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LM2940CT-5.0
LM2940CT-9.0



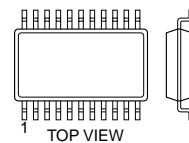
LM317T



LM35DZ

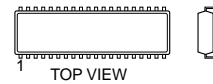


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M62352GP-75ED
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TC74LCX244F(EL)
TC74VHCT245AFT(EL)
TDA8395T/N3



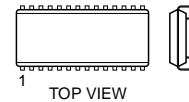
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MC68HC05P6SC442119B



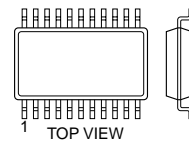
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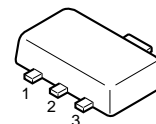
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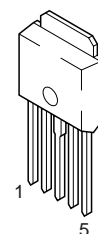


50pin SOP

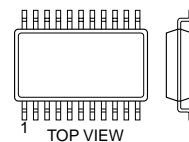
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PQ3TZ53U

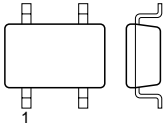


RS5C348A-E2



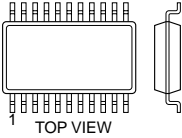
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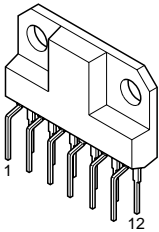
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TC74HC04AF-TP2
TC74HC125AF(EL)
TC74VHC14F(EL)
TC74VHCT04AF(EL)
TLC2932IPW-E20
TLC2933IPWR

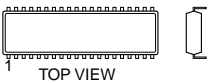


14pin SOP

TA8216H

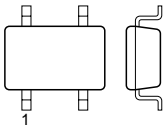


TC74HC126AF(EL)



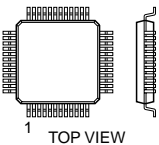
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TC7S04F(TE85R)
TC7S04FU(TE85R)
TC7S08FU(TE85R)



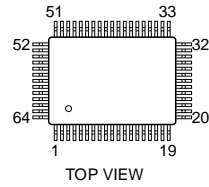
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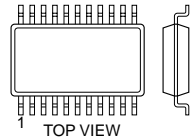


56pin QFP

TLC5733AIPM

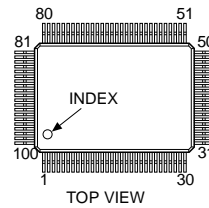


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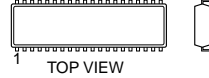


36pin SOP

UPD64082GF-3BA

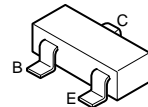


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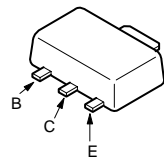


18pin DIP

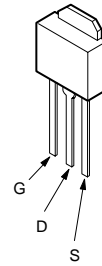
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2SA1037K-T-146-S
2SB709A-QRS-TX
2SC2412K-T-146-Q
2SC2412K-T-146-QR
2SC2412K-T-146-R
2SC2412K-T-146-S
DTA114EKA-T146
DTA144EKA-T146
DTC114EKA-T146
DTC144EKA-T146



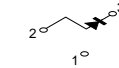
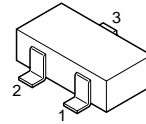
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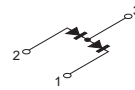
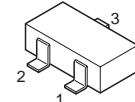
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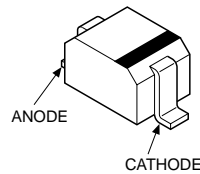
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RD5.6M-T1B2



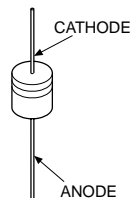
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MA157-TX



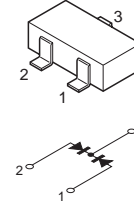
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HVU359TRF
MA111-TX
UDZ-TE-17-12B
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UDZ-TE-17-4.7B
UDZ-TE-17-5.6B



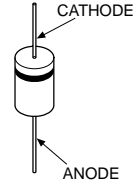
D1N20R-TR
RD10ES-T1B2



DAN202K-T-146



RD33ES-T1B2



Section 6

Exploded Views

NOTE :

The components identified marked △ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

6-1. Power Block

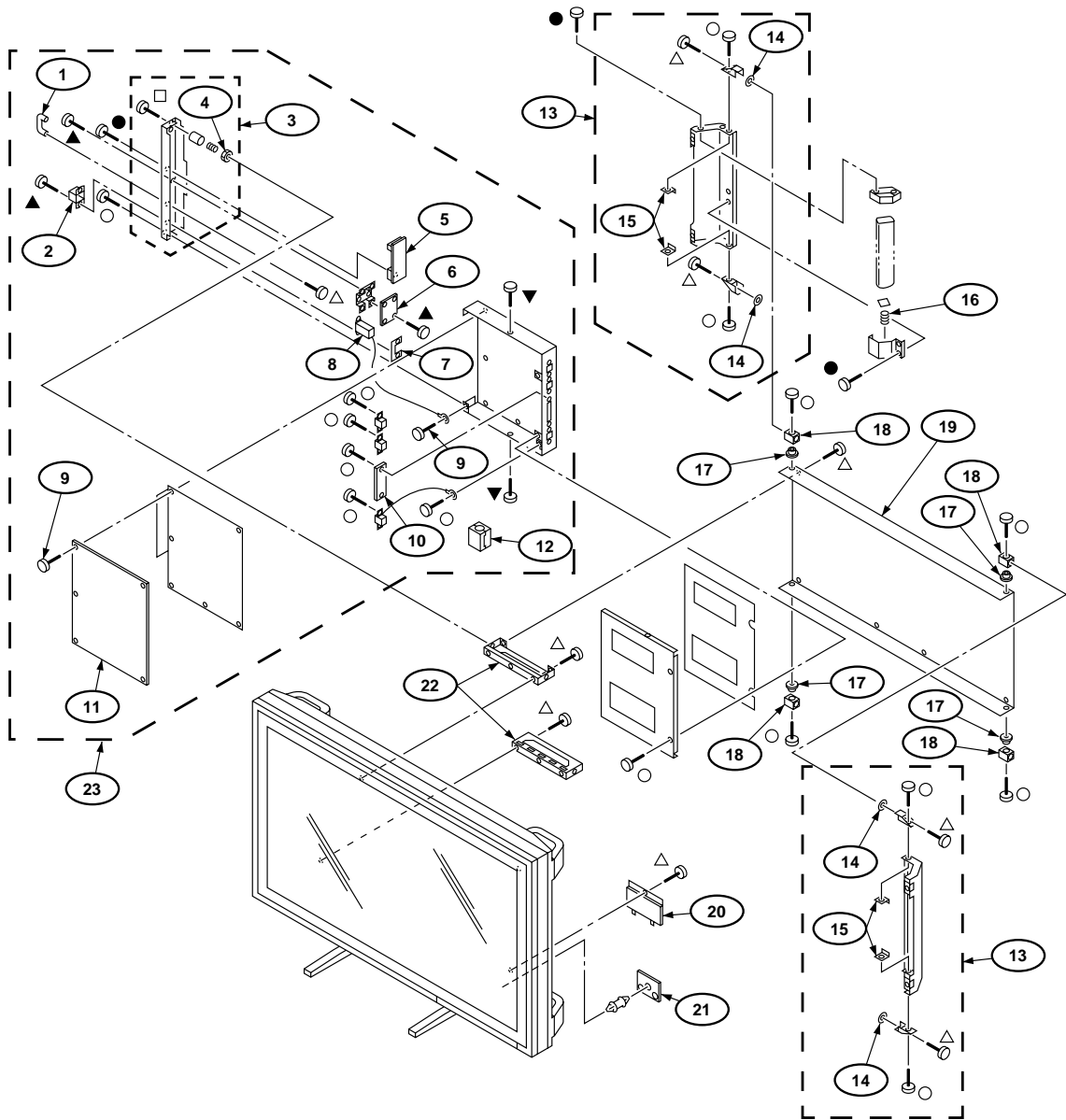
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▲: 7-682-950-09 +PSW3x12

▼: 7-682-249-04 +K3x10
- : 7-682-949-09 +PSW3x10

△: 7-682-962-09 +PSW4x10

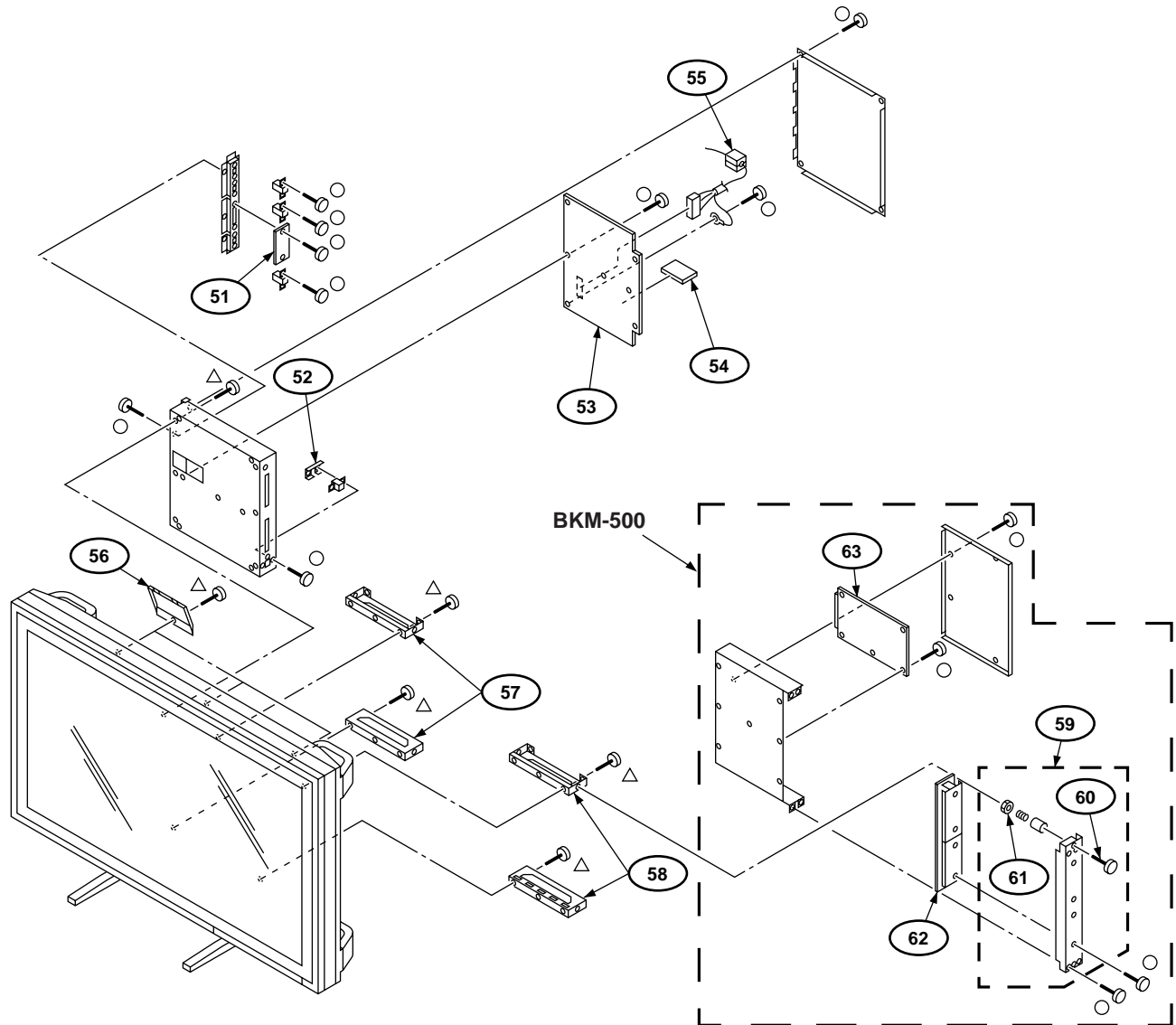
□: 7-682-566-04 +B4x20



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
1	4-052-200-01	HANDLE, PROTECTOR		12	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE) (PFM-510A2W)	
2	2-990-241-02	HOLDER (A), PLUG		13	* X-4035-827-1	COVER ASSY, SIDE	14, 15
3	* X-4036-671-3	PANEL ASSY, POWER UNIT	4	14	3-696-510-01	WASHER (3), STOPPER	
4	* 3-648-057-00	NUT (ISO-4), U		15	4-065-249-01	NUT, PLATE	
5	* A-1373-813-A	UA MOUNT		16	3-669-594-00	SPRING, COMPRESSION	
6	* A-1272-048-A	AF MOUNT		17	* 4-075-284-01	SPACER	
7	3-625-620-00	BRACKET, AC CONNECTOR		18	4-065-239-01	NUT	
8	△ 1-540-178-21	INLET, AC (GL-2100C-30)		19	* 4-074-162-01	COVER, REAR	
9	4-066-309-01	SCREW, MACHINE, (+) P M4X8		20	* 4-065-262-01	COVER, HAND HOLE	
10	* A-1311-857-A	G2 MOUNT (PFM-500A3W)		21	* A-1372-828-A	H6 MOUNT	
10	* A-1311-853-A	G2 MOUNT (PFM-510A2W)		22	* X-4035-835-2	BRACKET ASSY (A), REAR COVER	
11	1-468-522-11	REGULATOR, SWITCHING (APS-136 M BOARD) (PFM-500A3W)		23	* A-1484-854-A	POWER BLOCK ASSY (PFM-500A3W) 1-17	
11	1-468-447-11	REGULATOR, SWITCHING (APS-132 M BOARD) (PFM-510A2W)		23	* A-1484-837-A	POWER BLOCK ASSY (PFM-510A2W) 1-17	

6-2. SC and I/O Blocks

○: 7-682-949-09 +PSW3x10
 △: 7-682-962-09 +PSW4x10



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
51	* A-1311-858-A	G1 MOUNT (PFM-500A3W)		59	* X-4035-837-3	PANEL ASSY, I/O UNIT	60, 61
51	* A-1311-854-A	G1 MOUNT (PFM-510A2W)		60	* 4-050-804-01	SCREW, PANEL STOPPER	
52	4-065-253-01	NUT (A), PLATE		61	* 3-648-057-00	NUT (ISO-4), U	
53	* A-1131-604-A	B MOUNT (PFM-500A3W)		62	* A-1373-812-A	UJ MOUNT	
53	* A-1131-595-A	B MOUNT (PFM-510A2W)		63	* A-1372-829-A	H1 MOUNT	
54	* A-1131-596-A	B1 MOUNT					
55	1-500-037-11	CORE, FERRITE (WITH CASE)					
56	* 4-067-117-01	COVER, FAN					
57	* X-4035-917-2	BRACKET ASSY (B), REAR COVER					
58	* X-4035-835-2	BRACKET ASSY (A), REAR COVER					

6-3. Cabinet Block

- : 7-682-973-49

+PSW5x16
- ▽

: 7-682-970-09

+PSW4x40
- : 7-682-949-09

+PSW3x10
- ◇

: 7-682-965-01

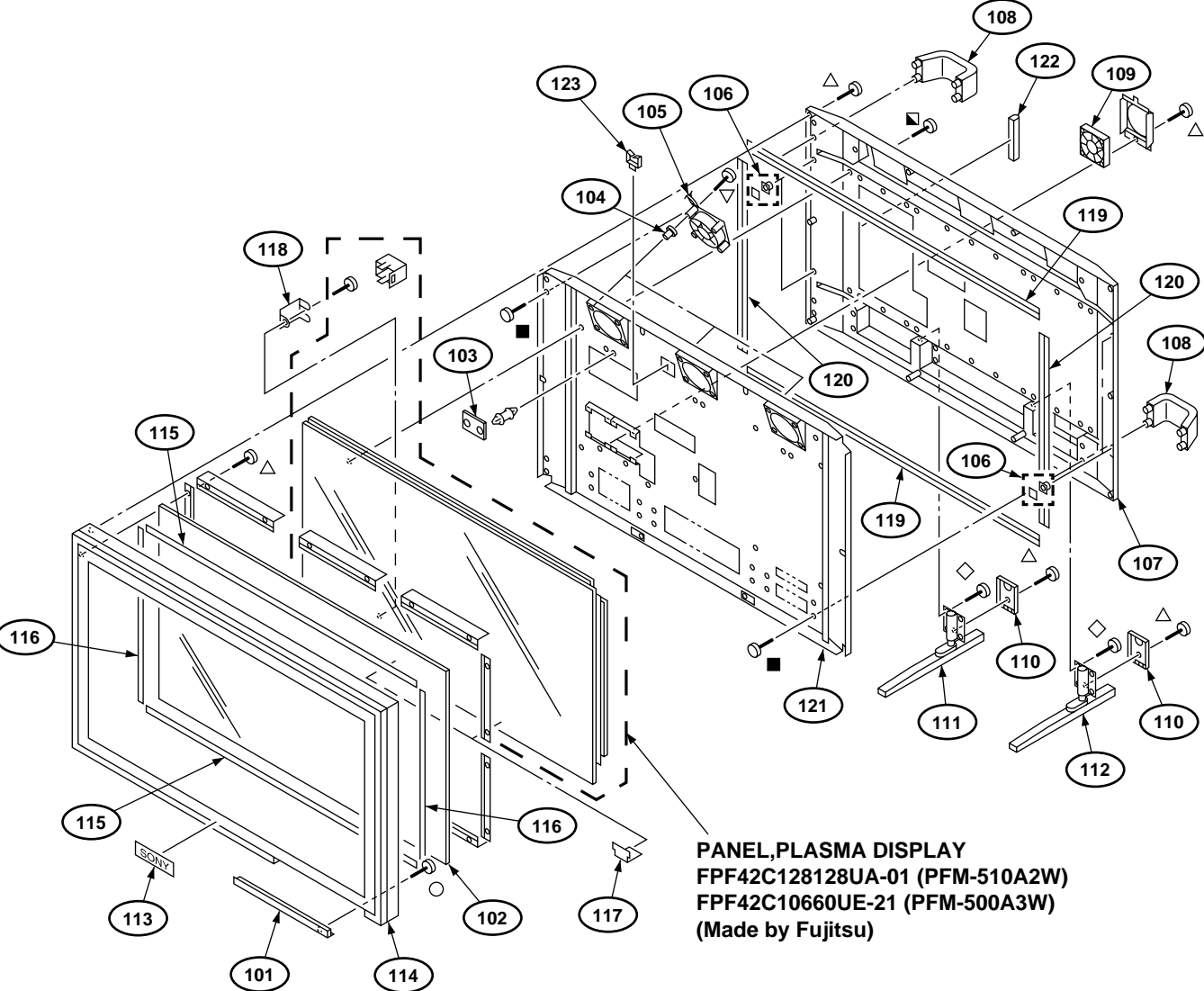
MACHINE SCREW +P M4x16
- △

: 7-682-962-09

+PSW4x10
- ▣

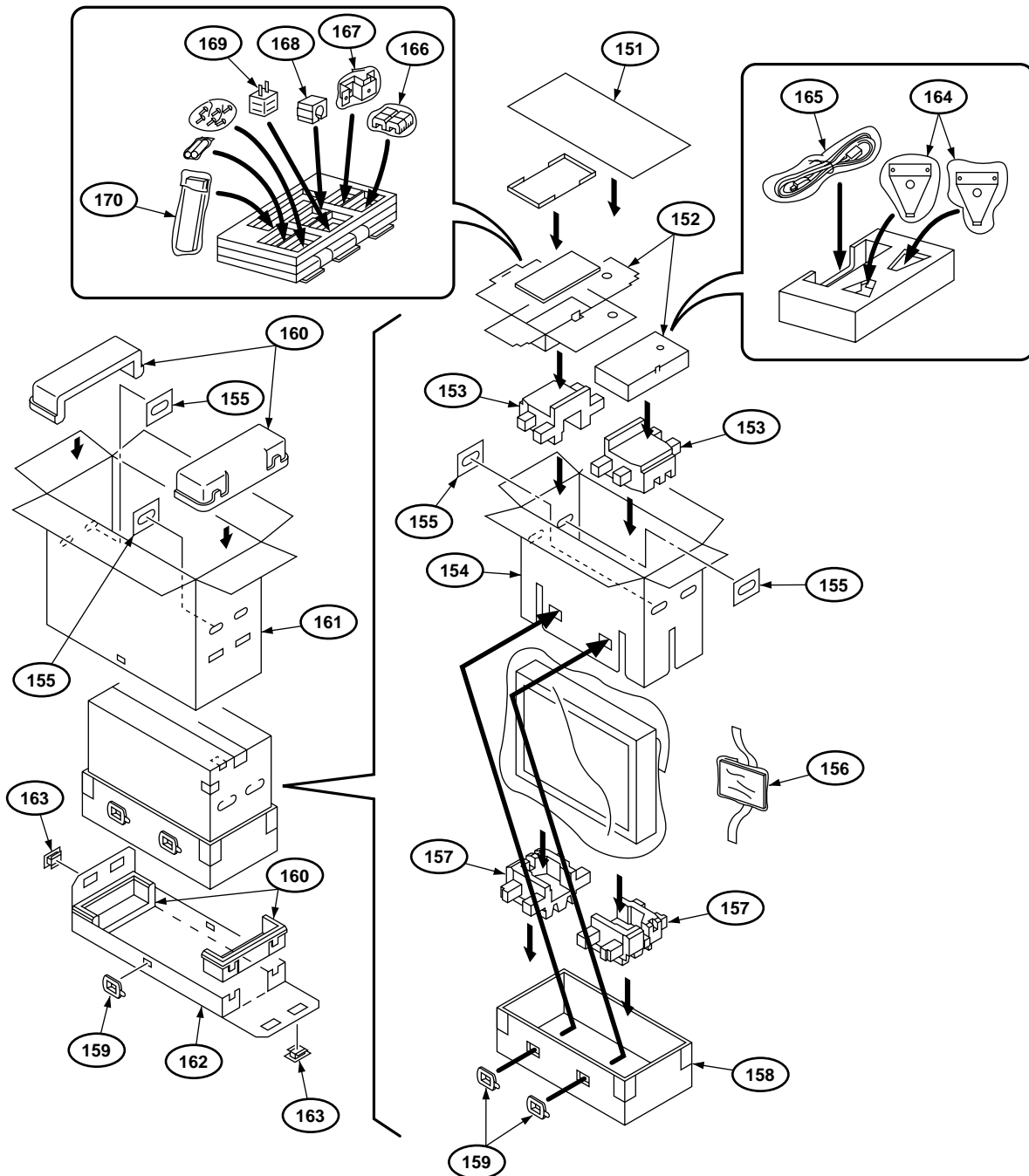
: 7-628-000-08

+PSW5x50



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
101	1-475-914-12	BOARD UNIT, KEY		110	* 4-065-296-01	COVER, FOOT	
102	1-758-502-11	GLASS, OPTICAL FILTER (PFM-500A3W)		111	* X-4035-829-1	FOOT (L) ASSY	
102	* 1-758-411-11	GLASS, OPTICAL FILTER (PFM-510A2W)		112	* X-4035-828-1	FOOT (R) ASSY	
103	* A-1391-046-A	S1 MOUNT		113	* X-4036-360-1	EMBLEM ASSY	
104	4-062-616-01	BUSHING, RUBBER		114	X-4035-913-2	BEZEL ASSY	
105	1-763-144-11	FAN, DC		115	* 4-065-188-31	GASKET	
106	X-4035-885-1	NUT ASSY, PLATE		116	* 4-065-188-21	GASKET	
107	* X-4037-115-1	CABINET ASSY, REAR		117	* 4-070-356-01	PLATE, PROTECTION	
108	* 4-070-197-01	HANDLE		118	* 4-070-357-01	PLATE, EARTH	
109	1-763-370-11	FAN, DC (WITH SENSOR)		119	* 4-071-740-01	GASKET	
				120	* 4-071-739-01	GASKET	
				121	* X-4035-832-7	SHIELD ASSY, MAIN	
				122	* 4-071-738-01	GASKET	
				123	* 3-646-071-02	HOLDER, WIRE	

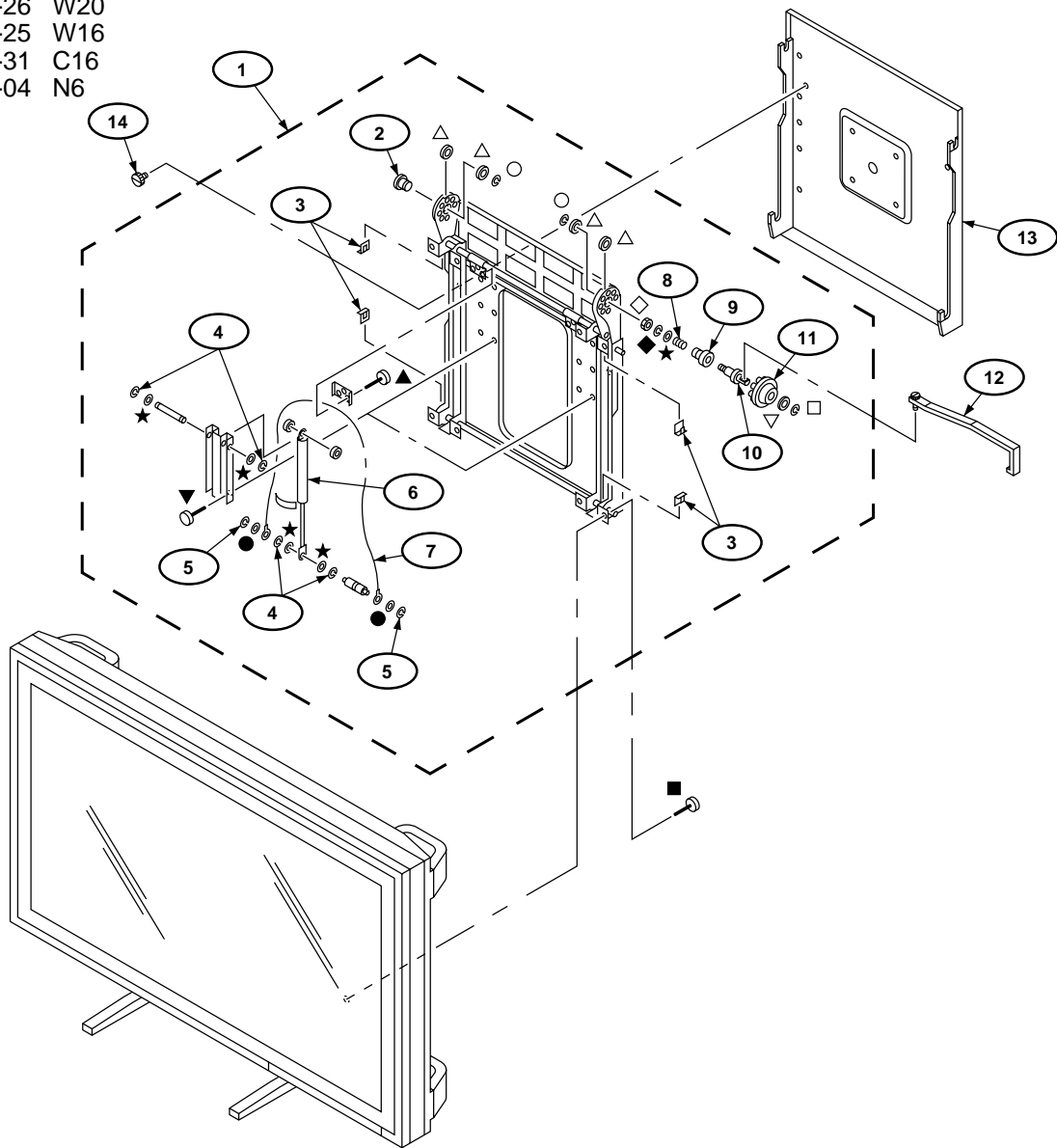
6-4. Packing Materials



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
151	* 4-066-055-01	BOARD, TOP	155	161	* 4-070-417-02	INDIVIDUAL CARTON (A)	155
152	* 4-069-139-01	BOX, ACCESSORY		162	* 4-070-418-01	TRAY (A)	
153	* 4-069-133-01	CUSHION (UPPER) (ASSY)		163	* 4-396-077-01	JOINT	
154	* 4-070-492-02	INDIVIDUAL CARTON		164	* 4-072-155-01	REINFORCEMENT, FOOT	
155	* 3-704-066-01	HANDLE (B)		165	△ 1-558-527-11	CORD SET, POWER (13A/125V) (U/C)	
156	4-076-854-01	OPERATING INSTRUCTIONS			△ 1-590-151-11	CORD SET, POWER (10A/250V) (AEP, E)	
157	* 4-069-134-01	CUSHION (LOWER) (ASSY)		166	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
158	* 4-065-581-01	TRAY		167	* 4-065-463-01	BRACKET, FOOT	
159	* 3-674-673-01	STOPPER (A)		168	2-990-242-01	HOLDER (B), PLUG	
160	* 4-070-419-01	CUSHION (A)		169	1-750-686-11	CONNECTOR, CONVERSION (3P-2P)	
				170	1-475-089-11	REMOTE COMMANDER (RM-921)	

6-5. MB-514

- : 7-688-005-02 W5
- ▲: 7-682-948-09 +PSW3x8
- ▼: 7-682-961-09 +PSW4x8
- : 7-682-973-49 +PSW5x16
- ◆: 7-623-213-22 SW6
- ★: 7-688-006-12 W6
- : 7-624-197-71 C20
- △: 7-688-000-26 W20
- ▽: 7-688-000-25 W16
- : 7-624-197-31 C16
- ◇: 7-684-026-04 N6



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
1	* X-4035-976-1	BRACKET ASSY, MOUNTING	2-11	11	* 4-066-361-01	BRACKET, LOCK	
2	* 4-066-350-01	SHAFT (B), FIXED		12	X-4035-975-1	HANDLE ASSY	
3	* 4-066-365-01	GUARD, EDGE		13	* X-4035-977-2	BRACKET ASSY, WALL	
4	3-618-078-00	RING, RETAINING, CE TYPE		14	4-066-358-02	KNOB	
5	3-638-493-02	RING, RETAINING, CE					
6	* 4-066-363-01	DAMPER, GAS					
7	4-066-364-01	ROPE, WIRE					
8	* 4-066-351-01	SPRING, COMPRESSION					
9	* 4-066-349-02	SHAFT (A), FIXED					
10	* 4-066-362-01	PIN					

Section 7

Electrical Parts List

NOTE :

The components identified marked \triangle are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

RESISTORS

- All resistors are in ohms.
- F: nonflammable
- METAL: Metal-film resistor
- METAL OXIDE: Metal oxide-film resistor

Ref.No.	Part No.	Description	Remark				Ref.No.	Part No.	Description	Remark						
	* A-1272-048-A	AF MOUNT *****						* A-1136-120-A	B COMPL (PFM-500A3W)							
								* A-1136-118-A	B COMPL (PFM-510A2W)							

		<CAPACITOR>						* 1-526-652-21	SOCKET, IC (DP) 8P							
C6501	1-126-392-11	ELECT CHIP	100μF	20%	6.3V		4-382-854-01	SCREW (M3X8), P, SW (+)								
C6502	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V											
C6503	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V											
		<CONNECTOR>														
CN6501	* 1-564-520-11	PLUG, CONNECTOR 5P														
		<IC>														
IC6501	8-759-032-59	IC MC74HC595AF-T2														
IC6502	8-759-032-59	IC MC74HC595AF-T2														
IC6503	8-719-045-58	DIODE LB-602MA2														
		<RESISTOR>														
R6501	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6502	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6503	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6504	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6505	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6506	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6507	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6508	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6509	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6510	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6511	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6512	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6513	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6514	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6515	1-216-041-00	RES-CHIP	470	5%	1/10W											
R6516	1-216-041-00	RES-CHIP	470	5%	1/10W											

											BAT500	1-550-104-11	HOLDER, BATTERY			
											<CAPACITOR>					
											C1	1-126-934-11	ELECT	220μF	20%	16V
											C2	1-126-934-11	ELECT	220μF	20%	16V
											C3	1-126-934-11	ELECT	220μF	20%	16V
											C4	1-126-934-11	ELECT	220μF	20%	16V
											C6	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C7	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C8	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C9	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C10	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C12	1-126-934-11	ELECT	220μF	20%	16V
											C13	1-104-664-11	ELECT	47μF	20%	16V
											C14	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C15	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C16	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C18	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C19	1-126-934-11	ELECT	220μF	20%	16V
											C20	1-126-934-11	ELECT	220μF	20%	16V
											C21	1-126-934-11	ELECT	220μF	20%	16V
											C23	1-126-934-11	ELECT	220μF	20%	16V
											C24	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C25	1-126-934-11	ELECT	220μF	20%	16V
											C26	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C27	1-126-934-11	ELECT	220μF	20%	16V
											C100	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C101	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
											C102	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
											C103	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
											C104	1-115-566-11	CERAMIC CHIP	4.7μF	10%	10V
											C105	1-115-566-11	CERAMIC CHIP	4.7μF	10%	10V
											C106	1-115-566-11	CERAMIC CHIP	4.7μF	10%	10V

Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
C107	1-115-566-11	CERAMIC CHIP	4.7μF	10%	10V		C258	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C108	1-107-713-11	ELECT	4.7μF	20%	50V		C259	1-135-216-11	TANTAL. CHIP	10μF	20%	10V	
C109	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C260	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C110	1-126-964-11	ELECT	10μF	20%	50V		C262	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C111	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C264	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C113	1-104-664-11	ELECT	47μF	20%	10V		C265	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C114	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C266	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C115	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C267	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C116	1-163-259-91	CERAMIC CHIP	220PF	5%	50V		C268	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C117	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C269	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C201	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		C270	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C204	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C271	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C205	1-126-965-11	ELECT	22μF	20%	50V		C272	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C206	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C273	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C207	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C274	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C208	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		C275	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C209	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C276	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C210	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		C277	1-104-664-11	ELECT	47μF	20%	16V	
C211	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C278	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C212	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C279	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C213	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C280	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C214	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C281	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C215	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C282	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C216	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		C283	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C217	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V		C284	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C218	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C285	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C219	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C286	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C220	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C287	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C221	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C288	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C222	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C289	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C223	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C290	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C224	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C291	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C225	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C292	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C226	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C293	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C227	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C294	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C228	1-126-965-11	ELECT	22μF	20%	50V		C295	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C229	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C297	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C230	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C298	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C231	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C299	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C232	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C300	1-104-664-11	ELECT	47μF	20%	16V	
C233	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C304	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C234	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C305	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C235	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C312	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C236	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C313	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C237	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C314	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C238	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C315	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C239	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C317	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C240	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C318	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	
C241	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C319	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C242	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C320	1-126-960-11	ELECT	1μF	20%	50V	
C243	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C500	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C244	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C501	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C245	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C502	1-126-934-11	ELECT	220μF	20%	16V	
C246	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C503	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C247	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C504	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C248	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C506	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C249	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C507	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C250	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C508	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C251	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C509	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C252	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C510	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C253	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C511	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C254	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C512	1-104-664-11	ELECT	47μF	20%	16V	
C255	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C513	1-104-664-11	ELECT	47μF	20%	16V	
C256	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C514	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C257	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C515	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C516	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C801	1-163-035-00	CERAMIC CHIP	0.047μF 50V
C517	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C802	1-126-964-11	ELECT	10μF 20% 50V
C518	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C803	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
C519	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C804	1-126-964-11	ELECT	10μF 20% 50V
C520	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C805	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
C521	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C806	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C522	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C807	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
C523	1-104-664-11	ELECT	47μF 20% 16V	C808	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C524	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C809	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C525	1-104-664-11	ELECT	47μF 20% 16V	C810	1-126-964-11	ELECT	10μF 20% 50V
C526	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C811	1-126-964-11	ELECT	10μF 20% 50V
C527	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C812	1-126-960-11	ELECT	1μF 20% 50V
C528	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C813	1-104-664-11	ELECT	47μF 20% 16V
C529	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C814	1-126-960-11	ELECT	1μF 20% 50V
C530	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C815	1-126-960-11	ELECT	1μF 20% 50V
C531	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C816	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V
C532	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V	C817	1-126-960-11	ELECT	1μF 20% 50V
C533	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C818	1-126-963-11	ELECT	4.7μF 20% 50V
C534	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V	C819	1-126-964-11	ELECT	10μF 20% 50V
C535	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C820	1-126-964-11	ELECT	10μF 20% 50V
C536	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C821	1-126-964-11	ELECT	10μF 20% 50V
C537	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C822	1-126-964-11	ELECT	10μF 20% 50V
C538	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C823	1-126-953-11	ELECT	2200μF 20% 35V
C539	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C824	1-107-909-11	ELECT	47μF 20% 35V
C540	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C825	1-126-964-11	ELECT	10μF 20% 50V
C541	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C826	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C542	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C827	1-126-964-11	ELECT	10μF 20% 50V
C543	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C828	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C544	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C829	1-126-947-11	ELECT	47μF 20% 35V
C545	1-125-838-91	CERAMIC CHIP	2.2μF 10% 6.3V	C830	1-126-947-11	ELECT	47μF 20% 35V
C546	1-125-838-91	CERAMIC CHIP	2.2μF 10% 6.3V	C831	1-126-947-11	ELECT	47μF 20% 35V
C547	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C832	1-126-964-11	ELECT	10μF 20% 50V
C548	1-126-934-11	ELECT	220μF 20% 16V	C833	1-126-953-11	ELECT	2200μF 20% 35V
C549	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C834	1-126-953-11	ELECT	2200μF 20% 35V
C550	1-163-253-11	CERAMIC CHIP	120PF 5% 50V	C835	1-136-165-00	MYLAR	0.1μF 5% 50V
C551	1-163-253-11	CERAMIC CHIP	120PF 5% 50V	C836	1-136-165-00	MYLAR	0.1μF 5% 50V
C552	1-163-253-11	CERAMIC CHIP	120PF 5% 50V	C837	1-104-664-11	ELECT	47μF 20% 16V
C553	1-163-253-11	CERAMIC CHIP	120PF 5% 50V	C838	1-104-664-11	ELECT	47μF 20% 16V
C554	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V	C1000	1-163-229-11	CERAMIC CHIP	12PF 5% 50V
C555	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1001	1-163-089-00	CERAMIC CHIP	6PF 0.50PF 50V
C556	1-163-253-11	CERAMIC CHIP	120PF 5% 50V	C1002	1-107-701-11	ELECT	47μF 20% 16V
C700	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1003	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C701	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1004	1-107-701-11	ELECT	47μF 20% 16V
C702	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1005	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C703	1-104-664-11	ELECT	47μF 20% 16V	C1006	1-107-701-11	ELECT	47μF 20% 16V
C704	1-126-933-11	ELECT	100μF 20% 16V	C1007	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C705	1-104-665-11	ELECT	100μF 20% 10V	C1008	1-104-664-11	ELECT	47μF 20% 25V
C706	1-104-665-11	ELECT	100μF 20% 10V	C1009	1-104-664-11	ELECT	47μF 20% 16V
C707	1-126-933-11	ELECT	100μF 20% 16V	C1010	1-104-664-11	ELECT	47μF 20% 16V
C708	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1011	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C709	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1012	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C710	1-104-664-11	ELECT	47μF 20% 16V	C1013	1-104-664-11	ELECT	47μF 20% 25V
C711	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1014	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C712	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1015	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C713	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1016	1-126-960-11	ELECT	1μF 20% 50V
C714	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1017	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C715	1-126-965-11	ELECT	22μF 20% 50V	C1018	1-104-664-11	ELECT	47μF 20% 25V
C716	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1019	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C717	1-126-965-11	ELECT	22μF 20% 50V	C1020	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C718	1-126-968-11	ELECT	100μF 20% 50V	C1021	1-104-664-11	ELECT	47μF 20% 16V
C720	1-104-664-11	ELECT	47μF 20% 16V	C1022	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C721	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1023	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C723	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1024	1-126-963-11	ELECT	4.7μF 20% 50V
C724	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1025	1-104-664-11	ELECT	47μF 20% 16V
C800	1-104-664-11	ELECT	47μF 20% 16V	C1026	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V

Ref.No.	Part No.	Description	Remark				Ref.No.	Part No.	Description	Remark			
C1027	1-107-716-11	ELECT	33μF	20%	16V		C1093	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1028	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1094	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1029	1-107-716-11	ELECT	33μF	20%	16V		C1095	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1030	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1096	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1031	1-126-964-11	ELECT	10μF	20%	50V		C1097	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1032	1-126-964-11	ELECT	10μF	20%	50V		C1098	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	
C1033	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1099	1-107-716-11	ELECT	33μF	20%	16V	
C1034	1-104-664-11	ELECT	47μF	20%	16V		C1100	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1035	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1101	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	
C1036	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1102	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1037	1-109-982-11	CERAMIC CHIP	1μF	10%	10V		C1103	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	
C1038	1-126-934-11	ELECT	220μF	20%	16V		C1104	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1039	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1105	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1040	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1106	1-163-253-11	CERAMIC CHIP	120PF	5%	50V	
C1041	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1107	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C1042	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1108	1-107-716-11	ELECT	33μF	20%	16V	
C1043	1-126-960-11	ELECT	1μF	20%	50V		C1109	1-126-960-11	ELECT	1μF	20%	50V	
C1044	1-126-934-11	ELECT	220μF	20%	16V		C1110	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1045	1-164-346-11	CERAMIC CHIP	1μF		16V		C1111	1-164-162-11	CERAMIC CHIP	100PF	2.00%	50V	
C1046	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1112	1-126-960-11	ELECT	1μF	20%	50V	
C1047	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1113	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1048	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1115	1-104-664-11	ELECT	47μF	20%	16V	
C1049	1-104-664-11	ELECT	47μF	20%	16V		C1116	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1050	1-104-664-11	ELECT	47μF	20%	16V		C1117	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1051	1-104-664-11	ELECT	47μF	20%	16V		C1118	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1052	1-104-664-11	ELECT	47μF	20%	16V		C1119	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1053	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1120	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1055	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C1121	1-107-716-11	ELECT	33μF	20%	16V	
C1056	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1122	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1057	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1123	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1058	1-163-102-00	CERAMIC CHIP	24PF	5%	50V		C1124	1-104-664-11	ELECT	47μF	20%	16V	
C1059	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1125	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1060	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1126	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1061	1-163-102-00	CERAMIC CHIP	24PF	5%	50V		C1127	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V	
C1062	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1128	1-164-344-11	CERAMIC CHIP	0.068μF	10%	25V	
C1063	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1129	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1064	1-104-665-11	ELECT	100μF	20%	10V		C1130	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
C1065	1-163-249-11	CERAMIC CHIP	82PF	5%	50V		C1131	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1066	1-163-231-11	CERAMIC CHIP	15PF	5%	50V		C1132	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1067	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1133	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1068	1-104-664-11	ELECT	47μF	20%	16V		C1134	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1069	1-164-346-11	CERAMIC CHIP	1μF		16V		C1135	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1070	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1136	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1071	1-107-698-11	ELECT	10μF	20%	25V		C1137	1-104-664-11	ELECT	47μF	20%	10V	
C1072	1-163-113-00	CERAMIC CHIP	68PF	5%	50V		C1138	1-104-664-11	ELECT	47μF	20%	16V	
C1073	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1139	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1074	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1140	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1075	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1141	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1076	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1142	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1077	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1143	1-104-664-11	ELECT	47μF	20%	16V	
C1078	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1144	1-104-664-11	ELECT	47μF	20%	16V	
C1079	1-104-664-11	ELECT	47μF	20%	16V		C1145	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1080	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1146	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1081	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1147	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1082	1-164-346-11	CERAMIC CHIP	1μF		16V		C1148	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1083	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1149	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1084	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1150	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1085	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		C1151	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1086	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1152	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1087	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1153	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1088	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		C1154	1-104-664-11	ELECT	47μF	20%	16V	
C1089	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1155	1-126-964-11	ELECT	10μF	20%	50V	
C1090	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1156	1-126-964-11	ELECT	10μF	20%	50V	
C1091	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1157	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1092	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		C1158	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
C1159	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1233	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1160	1-104-664-11	ELECT	47μF	20%	16V	C1234	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1161	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1235	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1162	1-126-964-11	ELECT	10μF	20%	50V	C1236	1-104-664-11	ELECT	47μF	20%	16V
C1164	1-104-665-11	ELECT	100μF	20%	10V	C1237	1-104-664-11	ELECT	47μF	20%	16V
C1165	1-126-964-11	ELECT	10μF	20%	50V	C1238	1-104-664-11	ELECT	47μF	20%	16V
C1168	1-126-964-11	ELECT	10μF	20%	50V	C1239	1-126-964-11	ELECT	10μF	20%	50V
C1169	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C1240	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1170	1-104-664-11	ELECT	47μF	20%	16V	C1241	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1171	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1242	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1172	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1243	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1173	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1244	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1174	1-104-664-11	ELECT	47μF	20%	16V	C1245	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1175	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C1246	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1176	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1247	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1179	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1248	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1183	1-126-964-11	ELECT	10μF	20%	50V	C1249	1-126-964-11	ELECT	10μF	20%	50V
C1184	1-104-665-11	ELECT	100μF	20%	10V	C1250	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C1185	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1251	1-104-664-11	ELECT	47μF	20%	16V
C1186	1-104-664-11	ELECT	47μF	20%	16V	C1252	1-104-664-11	ELECT	47μF	20%	16V
C1187	1-104-664-11	ELECT	47μF	20%	16V	C1261	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1189	1-104-664-11	ELECT	47μF	20%	16V	C1262	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1190	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1263	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1191	1-104-664-11	ELECT	47μF	20%	16V	C1264	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1192	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1265	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1193	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1266	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1194	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1267	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1195	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1268	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1196	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1269	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1197	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1270	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1198	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1271	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1199	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1278	1-104-665-11	ELECT	100μF	20%	10V
C1200	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2000	1-126-963-11	ELECT	4.7μF	20%	50V
C1201	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2001	1-126-963-11	ELECT	4.7μF	20%	50V
C1202	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2002	1-126-963-11	ELECT	4.7μF	20%	50V
C1203	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2003	1-126-963-11	ELECT	4.7μF	20%	50V
C1204	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2004	1-126-963-11	ELECT	4.7μF	20%	50V
C1205	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2005	1-126-963-11	ELECT	4.7μF	20%	50V
C1206	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2100	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1207	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2101	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1208	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2102	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1209	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2103	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1210	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2104	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1211	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2105	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1212	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2106	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1213	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2107	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1214	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2108	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1215	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2109	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1216	1-104-665-11	ELECT	100μF	20%	10V	C2110	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1217	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2111	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1218	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2112	1-165-319-11	CERAMIC CHIP	0.1μF		50V
C1219	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2200	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C1220	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2201	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C1221	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2202	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C1222	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2203	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C1223	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2204	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C1224	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2300	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1225	1-104-664-11	ELECT	47μF	20%	16V	C2301	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1226	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2302	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1227	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2303	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1228	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2304	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1229	1-104-664-11	ELECT	47μF	20%	16V	C2305	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1230	1-126-963-11	ELECT	4.7μF	20%	50V	C2306	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C1231	1-104-664-11	ELECT	47μF	20%	16V	C2400	1-163-025-11	CERAMIC CHIP	0.001μF		50V
C1232	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C2401	1-163-025-11	CERAMIC CHIP	0.001μF		50V

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
C2402	1-163-025-11	CERAMIC CHIP	0.001μF	50V		C4054	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C2403	1-163-025-11	CERAMIC CHIP	0.001μF	50V		C4055	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C2404	1-163-025-11	CERAMIC CHIP	0.001μF	50V		C4056	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C2405	1-163-025-11	CERAMIC CHIP	0.001μF	50V		C4057	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C2500	1-163-235-11	CERAMIC CHIP	22PF	2.00%	50V	C4058	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C2600	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V	C4059	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C2601	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V	C4060	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C2602	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V	C4061	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V
C2700	1-126-967-11	ELECT	47μF	20%	50V	C4062	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C2701	1-165-319-11	CERAMIC CHIP	0.1μF		50V	C4063	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C2702	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C4064	1-104-664-11	ELECT	47μF	20%	16V
C4000	1-126-964-11	ELECT	10μF	20%	50V	C4065	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C4001	1-126-934-11	ELECT	220μF	20%	10V	C4066	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4002	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4067	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4003	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C4068	1-107-713-11	ELECT	4.7μF	20%	50V
C4004	1-126-964-11	ELECT	10μF	20%	50V	C4069	1-104-664-11	ELECT	47μF	20%	16V
C4005	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4070	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C4006	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4071	1-126-961-11	ELECT	2.2μF	20%	50V
C4007	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4072	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4008	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C4073	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C4009	1-126-964-11	ELECT	10μF	20%	50V	C4074	1-126-960-11	ELECT	1μF	20%	50V
C4010	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4075	1-104-664-11	ELECT	47μF	20%	16V
C4011	1-126-964-11	ELECT	10μF	20%	50V	C4076	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4012	1-126-964-11	ELECT	10μF	20%	50V	C4077	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4013	1-126-964-11	ELECT	10μF	20%	50V	C4078	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C4014	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C4079	1-104-664-11	ELECT	47μF	20%	16V
C4015	1-126-934-11	ELECT	220μF	20%	10V	C4080	1-104-664-11	ELECT	47μF	20%	16V
C4016	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C4081	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4017	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V	C4082	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4018	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C4083	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4019	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C4084	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4020	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C4085	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4021	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4086	1-126-963-11	ELECT	4.7μF	20%	50V
C4022	1-126-934-11	ELECT	220μF	20%	10V	C4088	1-126-959-11	ELECT	0.47μF	20%	50V
C4023	1-126-934-11	ELECT	220μF	20%	10V	C4089	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4024	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C4090	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C4025	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C4091	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C4026	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4092	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C4027	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4093	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4028	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C4094	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4029	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	C4095	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C4030	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C4096	1-126-963-11	ELECT	4.7μF	20%	50V
C4031	1-124-442-00	ELECT	330μF	20%	6.3V	C4097	1-163-145-00	CERAMIC CHIP	0.0015μF	5%	50V
C4032	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4098	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4033	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C4099	1-104-664-11	ELECT	47μF	20%	16V
C4034	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4100	1-126-933-11	ELECT	100μF	20%	16V
C4035	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C4103	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C4036	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	C4104	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4037	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	C4105	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C4038	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C4106	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4039	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4107	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C4040	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C4108	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C4041	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4109	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V
C4042	1-126-964-11	ELECT	10μF	20%	50V	C4110	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4043	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4111	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V
C4044	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C4112	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C4045	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	<CONNECTOR>					
C4046	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN3	* 1-794-540-11	HEADER, CONNECTOR(PC BOARD) 80 (PFM-500A3W)			
C4047	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN3	* 1-793-268-11	HEADER, CONNECTOR(PC BOARD) 80 (PFM-510A2W)			
C4048	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN4	1-506-474-11	PIN, CONNECTOR 9P			
C4049	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN5	1-506-468-11	PIN, CONNECTOR 3P			
C4050	1-163-038-91	CERAMIC CHIP	0.1μF		25V	CN6	1-506-476-11	PIN, CONNECTOR 11P			
C4051	1-163-038-91	CERAMIC CHIP	0.1μF		25V						
C4052	1-163-038-91	CERAMIC CHIP	0.1μF		25V						
C4053	1-163-038-91	CERAMIC CHIP	0.1μF		25V						

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
CN7	1-506-468-11	PIN, CONNECTOR 3P		FB204	1-414-234-22	INDUCTOR CHIP 0μH	
CN8	* 1-506-477-11	PIN, CONNECTOR 12P		FB205	1-414-234-22	INDUCTOR CHIP 0μH	
CN9	1-506-474-11	PIN, CONNECTOR 9P		FB700	1-410-396-41	FERRITE 0.45μH	
CN10	* 1-506-475-11	PIN, CONNECTOR 10P		FB701	1-414-230-22	INDUCTOR CHIP 0μH	
CN12	1-506-480-11	PIN, CONNECTOR 15P					
CN13	1-506-469-11	PIN, CONNECTOR 4P				<FILTER>	
CN14	1-506-474-11	PIN, CONNECTOR 9P		FL1000	1-414-234-22	INDUCTOR CHIP 0μH	
CN15	1-506-473-11	PIN, CONNECTOR 8P		FL1001	1-414-234-22	INDUCTOR CHIP 0μH	
CN16	1-774-530-11	CONNECTOR, BOARD TO BOARD 5P		FL1002	1-543-775-11	FERRITE 0μH	
CN17	1-774-530-11	CONNECTOR, BOARD TO BOARD 5P		FL1003	1-543-775-11	FERRITE 0μH	
CN18	1-506-468-11	PIN, CONNECTOR 3P		FL1004	1-239-847-11	FILTER, LOW PASS	
CN19	1-506-468-11	PIN, CONNECTOR 3P					
		<DIODE>		FL1005	1-233-505-21	FILTER, LOW PASS	
D1	8-719-073-01	DIODE MA111-TX		FL1006	1-233-504-21	FILTER, LOW PASS	
D100	8-719-914-43	DIODE DAN202K-T-146		FL1007	1-233-504-21	FILTER, LOW PASS	
D101	8-719-158-49	DIODE UDZ-TE-17-12B		FL4000	1-233-736-21	FILTER, EMI	
D102	8-719-158-49	DIODE UDZ-TE-17-12B		FL4001	1-233-736-21	FILTER, EMI	
D201	8-719-073-01	DIODE MA111-TX					
D504	8-719-158-15	DIODE UDZ-TE-17-5.6B		FL4002	1-233-736-21	FILTER, EMI	
D505	8-719-158-15	DIODE UDZ-TE-17-5.6B		FL4003	1-233-434-11	FILTER, LOW PASS	
D506	8-719-158-15	DIODE UDZ-TE-17-5.6B		FL4004	1-233-736-21	FILTER, EMI	
D507	8-719-158-15	DIODE UDZ-TE-17-5.6B		FL4005	1-233-736-21	FILTER, EMI	
D508	8-719-158-15	DIODE UDZ-TE-17-5.6B		FL4006	1-233-434-11	FILTER, LOW PASS	
D509	8-719-158-15	DIODE UDZ-TE-17-5.6B					
D510	8-719-073-01	DIODE MA111-TX				<IC>	
D511	8-719-073-01	DIODE MA111-TX		IC1	8-759-460-72	IC BA033FP-E2	
D512	8-719-073-01	DIODE MA111-TX		IC2	8-759-003-17	IC LM317T	
D513	8-719-073-01	DIODE MA111-TX		IC3	8-759-460-72	IC BA033FP-E2	
D514	8-719-073-01	DIODE MA111-TX		IC4	8-759-390-57	IC LM2940CT-5.0	
D700	8-719-158-15	DIODE UDZ-TE-17-5.6B		IC6	8-759-267-25	IC LM2940CT-9.0	
D701	8-719-073-01	DIODE MA111-TX					
D702	8-719-059-22	DIODE NSQ03A06-TE16L		IC7	8-759-460-72	IC BA033FP-E2	
D703	8-719-073-01	DIODE MA111-TX		IC100	8-759-011-65	IC TC74HC4053AF(EL)	
D704	8-719-073-01	DIODE MA111-TX		IC101	8-759-646-02	IC M52347FP-TE	
D705	8-719-073-01	DIODE MA111-TX		IC102	8-759-475-21	IC TC74LCX244F(EL)	
D800	8-719-073-01	DIODE MA111-TX		IC103	8-759-442-20	IC 24LC217/SN	
D801	8-719-057-00	DIODE UDZ-TE-17-36B					
D802	8-719-510-48	DIODE D1N20R-TR		IC200	8-759-645-12	IC AD9884AKS-140	
D803	8-719-510-48	DIODE D1N20R-TR		IC202	8-759-481-73	IC SN74LVC125APWR	
D1000	8-719-800-76	DIODE MA157-TX		IC204	8-759-362-35	IC ICS9161A-01CW16T	
D1001	8-719-800-76	DIODE MA157-TX		IC205	8-759-575-71	IC M24C04-WMN6T	
D1002	8-719-800-76	DIODE MA157-TX		IC206	8-759-669-11	IC MBM29LV400TC-70PFTN-SV9695	
D1003	8-719-073-01	DIODE MA111-TX					
D1004	8-719-073-01	DIODE MA111-TX		IC207	8-759-646-32	IC PW164-20WK	
D1005	8-719-988-61	DIODE 1SS355TE-17		IC208	8-759-652-59	IC EPFQC240AA	
D1006	8-719-073-01	DIODE MA111-TX		IC209	8-759-475-21	IC TC74LCX244F(EL)	
D1007	8-719-422-12	DIODE UDZ-TE-17-3.9B		IC210	8-759-491-51	IC TC74VHCT245AFT(EL)	
D4000	8-719-073-01	DIODE MA111-TX		IC211	8-759-491-51	IC TC74VHCT245AFT(EL)	
D4001	8-719-073-01	DIODE MA111-TX					
D4002	8-719-914-43	DIODE DAN202K-T-146		IC212	8-759-491-51	IC TC74VHCT245AFT(EL)	
D4003	8-719-914-43	DIODE DAN202K-T-146		IC213	8-759-491-51	IC TC74VHCT245AFT(EL)	
D4004	8-719-073-01	DIODE MA111-TX		IC214	8-759-599-99	IC MB90096PF-G-182-BND-ER	
D4005	8-719-914-43	DIODE DAN202K-T-146		IC215	8-759-491-51	IC TC74VHCT245AFT(EL)	
D4006	8-719-031-68	DIODE HVU359TRF		IC216	8-759-680-78	IC EPC1PC8-9692V1.00 (PFM-500A3W)	
D4007	8-719-031-68	DIODE HVU359TRF					
		<FERRITE BEAD>		IC216	8-759-668-72	IC EPC1PC8-9695V1.00 (PFM-510A2W)	
FB101	1-414-234-22	INDUCTOR CHIP 0μH		IC218	8-759-646-15	IC ST49C101ACF8-05-TR	
FB200	1-414-234-22	INDUCTOR CHIP 0μH		IC219	8-759-058-62	IC TC7S08FU(TE85R)	
FB201	1-414-234-22	INDUCTOR CHIP 0μH		IC220	8-759-008-45	IC MC74HC4538AF-T1 (PFM-500A3W)	
FB202	1-414-234-22	INDUCTOR CHIP 0μH		IC220	8-759-239-34	IC TC74HC4538AF(EL) (PFM-510A2W)	
FB203	1-414-234-22	INDUCTOR CHIP 0μH					
				IC221	8-759-439-67	IC TC7W126FU(TE12R)	
				IC222	8-759-491-32	IC TC74VHCT04AF(EL)	
				IC223	8-759-058-58	IC TC7S04FU(TE85R)	
				IC224	8-759-011-65	IC TC74HC4053AF(EL)	
				IC500	8-759-232-46	IC TC74HC126AF(EL)	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
IC501	8-759-635-27	IC M62352GP-75ED		IC4009	8-759-239-55	IC TC74HC123AF(EL)	
IC502	8-759-475-21	IC TC74LCX244F(EL)		IC4010	8-759-235-14	IC TC74HC04AF-TP2	
IC503	8-759-252-59	IC MAX202CSE-T		IC4011	8-759-239-55	IC TC74HC123AF(EL)	
IC504	8-759-560-17	IC RS5C348A-E2		IC4012	8-759-232-65	IC TC74HC157AF(EL)	
IC505	8-759-232-46	IC TC74HC126AF(EL)					
IC506	8-759-232-44	IC TC74HC125AF(EL)				<COIL>	
IC507	8-759-233-73	IC TC74HCT244AF(EL)		L200	1-414-752-11	INDUCTOR 2.2μH	
IC508	8-759-186-30	IC TC74VHC14F(EL)		L700	1-410-482-31	INDUCTOR 100μH	
IC509	8-759-648-10	IC HD64F2633TE		L701	1-406-666-21	INDUCTOR 150μH	
IC510	8-759-058-62	IC TC7S08FU(TE85R)		L702	1-406-666-21	INDUCTOR 150μH	
				L704	1-410-671-31	INDUCTOR 47μH	
IC511	8-759-492-55	IC M24C64-WMN6T					
IC512	8-759-582-91	IC S-80842ANNP-ED6-T2		L800	1-408-615-31	INDUCTOR 100μH	
IC513	8-759-582-91	IC S-80842ANNP-ED6-T2		L1001	1-410-200-31	INDUCTOR CHIP 4.7μH	
IC700	8-759-058-62	IC TC7S08FU(TE85R)		L1002	1-414-042-21	INDUCTOR 18μH	
IC701	8-759-058-62	IC TC7S08FU(TE85R)		L1003	1-410-210-21	INDUCTOR CHIP 33μH	
				L1004	1-414-754-11	INDUCTOR 10μH	
IC702	8-759-058-62	IC TC7S08FU(TE85R)					
IC703	8-759-981-65	IC NJM2903M-T2		L1005	1-414-754-11	INDUCTOR 10μH	
IC704	8-759-058-62	IC TC7S08FU(TE85R)		L1006	1-414-757-11	INDUCTOR 100μH	
IC705	8-759-058-62	IC TC7S08FU(TE85R)		L1007	1-412-052-21	INDUCTOR CHIP 1μH	
IC800	8-759-346-93	IC TA8184F(EL)		L1008	1-414-757-11	INDUCTOR 100μH	
				L1009	1-414-754-11	INDUCTOR 10μH	
IC801	8-759-246-70	IC TA8216H					
IC1000	8-752-053-21	IC CXA1211M-T4		L1010	1-414-754-11	INDUCTOR 10μH	
IC1001	8-752-053-21	IC CXA1211M-T4		L1011	1-410-663-31	INDUCTOR 10μH	
IC1002	8-759-011-65	IC TC74HC4053AF(EL)		L1012	1-414-754-11	INDUCTOR 10μH	
IC1003	8-759-011-65	IC TC74HC4053AF(EL)		L1013	1-414-757-11	INDUCTOR 100μH	
				L1014	1-414-757-11	INDUCTOR 100μH	
IC1004	8-759-082-61	IC TC4W53FU(TE12R)					
IC1005	8-752-053-21	IC CXA1211M-T4		L1015	1-414-757-11	INDUCTOR 100μH	
IC1006	8-759-987-27	IC LM1881MX		L1016	1-414-754-11	INDUCTOR 10μH	
IC1007	8-759-568-27	IC MSM514265C-60JSDR1		L1017	1-414-754-11	INDUCTOR 10μH	
IC1008	8-759-460-72	IC BA033FP-E2		L1018	1-414-754-11	INDUCTOR 10μH	
				L2000	1-414-754-11	INDUCTOR 10μH	
IC1009	8-759-460-72	IC BA033FP-E2					
IC1010	8-759-031-84	IC TC7S04F(TE85R)		L4000	1-408-595-31	INDUCTOR 2.2μH	
IC1011	8-759-594-44	IC UPD64082GF-3BA		L4001	1-408-591-11	INDUCTOR 1μH	
IC1012	8-759-031-84	IC TC7S04F(TE85R)		L4002	1-408-595-31	INDUCTOR 2.2μH	
IC1014	8-759-635-27	IC M62352GP-75ED		L4003	1-408-595-31	INDUCTOR 2.2μH	
				L4004	1-408-595-31	INDUCTOR 2.2μH	
IC1027	8-759-970-89	IC BA10358F-T2					
IC1028	8-759-970-89	IC BA10358F-T2		L4005	1-408-591-11	INDUCTOR 1μH	
IC1029	8-759-970-89	IC BA10358F-T2		L4006	1-414-248-11	INDUCTOR 2.2μH	
IC1030	8-752-067-05	IC CXA1739S		L4007	1-414-248-11	INDUCTOR 2.2μH	
IC1031	8-759-011-65	IC TC74HC4053AF(EL)		L4008	1-408-591-11	INDUCTOR 1μH	
				L4009	1-410-193-51	INDUCTOR CHIP 1.2μH	
IC1032	8-759-328-12	IC Z8622812PSC					
IC1033	8-759-390-57	IC LM2940CT-5.0		L4010	1-410-193-51	INDUCTOR CHIP 1.2μH	
IC1034	8-759-390-38	IC LM2940CT-12FL91		L4011	1-410-193-51	INDUCTOR CHIP 1.2μH	
IC1035	8-752-082-49	IC CXA2119M-T6		L4012	1-410-193-51	INDUCTOR CHIP 1.2μH	
IC1036	8-749-015-18	IC PQ07VZ012P		L4013	1-410-193-51	INDUCTOR CHIP 1.2μH	
				L4014	1-410-193-51	INDUCTOR CHIP 1.2μH	
IC1037	8-759-430-32	IC TLC2933IPWR					
IC1039	8-759-573-19	IC MSM56V16160D-10TS-K		L4017	1-410-193-51	INDUCTOR CHIP 1.2μH	
IC1040	8-752-398-47	IC CXD2090Q					
IC1041	8-759-295-09	IC TLC2932IPW-E20					
IC1042	8-759-447-90	IC TLC5733AIPM					
						<TRANSISTOR>	
IC1043	8-759-528-48	IC NJU7032M-TE2		Q100	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
IC1044	8-759-082-61	IC TC4W53FU(TE12R)		Q101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
IC2000	8-759-661-00	IC ISPLSI2192VE-100LT128		Q102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC2001	8-759-660-42	IC THC63LVD84A-T		Q103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
IC2002	8-759-475-21	IC TC74LCX244F(EL)		Q104	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
IC2010	8-759-460-72	IC BA033FP-E2		Q200	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC2011	8-759-460-72	IC BA033FP-E2		Q201	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC4000	8-759-430-79	IC TDA8395T/N3		Q202	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC4001	8-752-070-58	IC CXA1860Q-T4		Q203	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC4003	8-752-352-09	IC CXD2300Q-T4		Q502	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
IC4004	8-752-369-15	IC CXD2030R		Q503	8-729-101-07	TRANSISTOR 2SA1213Y-TE12L	
IC4005	8-759-011-65	IC TC74HC4053AF(EL)		Q700	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC4006	8-752-369-84	IC CXD2309Q-T6		Q701	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
IC4007	8-759-296-53	IC UPC1862GS-E2		Q702	8-729-041-37	TRANSISTOR 2SJ377(TE16L)	
IC4008	8-759-239-55	IC TC74HC123AF(EL)		Q800	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q801	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q1061	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
Q802	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q1062	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
Q803	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q1063	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
Q804	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q1064	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
Q1000	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q1065	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q1001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q1066	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4000	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4001	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1004	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4002	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1005	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4003	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1006	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4004	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1007	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4005	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q1008	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4006	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4007	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1010	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4008	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1011	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4009	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1012	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4010	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1013	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q4011	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1014	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4012	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1015	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q4013	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q1016	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4014	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1017	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q4015	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1018	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4016	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1019	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4017	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1020	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4018	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1021	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4019	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1022	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4020	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1023	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4021	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q1024	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4022	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q1025	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4023	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1026	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4024	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1027	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q		Q4025	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1028	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4026	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
Q1029	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4027	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q1030	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4028	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
Q1031	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4029	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q	
Q1032	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4030	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1033	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q4031	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1034	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4032	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1035	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q4033	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1036	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q4034	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1037	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q4035	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1038	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4036	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1039	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4037	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1040	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4038	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1041	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		Q4039	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1042	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		<RESISTOR>			
Q1043	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R1	1-216-341-11	METAL OXIDE	0.22 5% 1W
Q1044	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R3	1-216-643-11	METAL CHIP	470 0.50% 1/10W
Q1045	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R4	1-216-643-11	METAL CHIP	470 0.50% 1/10W
Q1046	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R5	1-215-880-00	METAL OXIDE	10 5% 2W
Q1047	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R100	1-216-041-00	RES-CHIP	470 5% 1/10W
Q1048	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R101	1-216-041-00	RES-CHIP	470 5% 1/10W
Q1049	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R102	1-216-660-11	METAL CHIP	2.4K 0.50% 1/10W
Q1050	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R103	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
Q1051	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R104	1-216-662-11	METAL CHIP	3K 0.50% 1/10W
Q1052	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R105	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
Q1053	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R106	1-218-756-11	METAL CHIP	150K 0.50% 1/10W
Q1054	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R107	1-216-697-91	METAL CHIP	82K 0.50% 1/10W
Q1055	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R108	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
Q1056	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R109	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
Q1057	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R110	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
Q1058	8-729-900-53	TRANSISTOR DTC114EKA-T146					
Q1059	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q					
Q1060	8-729-120-28	TRANSISTOR 2SC2412K-T-146-Q					

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R111	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R282	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R112	1-216-017-91	RES-CHIP	47	5%	1/10W	R283	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R114	1-216-017-91	RES-CHIP	47	5%	1/10W	R284	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R115	1-216-017-91	RES-CHIP	47	5%	1/10W	R290	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R116	1-216-089-91	RES-CHIP	47K	5%	1/10W	R291	1-216-025-91	RES-CHIP	100	5%	1/10W
R117	1-216-017-91	RES-CHIP	47	5%	1/10W	R292	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R204	1-216-001-00	RES-CHIP	10	5%	1/10W	R293	1-216-017-91	RES-CHIP	47	5%	1/10W
R205	1-216-001-00	RES-CHIP	10	5%	1/10W	R294	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R206	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R295	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R207	1-216-295-91	SHORT	0			R296	1-216-697-91	METAL CHIP	82K	0.50%	1/10W
R208	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R297	1-216-049-91	RES-CHIP	1K	5%	1/10W
R211	1-216-073-00	RES-CHIP	10K	5%	1/10W	R437	1-216-037-00	RES-CHIP	330	5%	1/10W
R212	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W	R438	1-216-037-00	RES-CHIP	330	5%	1/10W
R213	1-216-073-00	RES-CHIP	10K	5%	1/10W	R439	1-216-037-00	RES-CHIP	330	5%	1/10W
R214	1-216-009-91	RES-CHIP	22	5%	1/10W	R440	1-216-029-00	RES-CHIP	150	5%	1/10W
R216	1-216-009-91	RES-CHIP	22	5%	1/10W	R441	1-216-029-00	RES-CHIP	150	5%	1/10W
R217	1-216-017-91	RES-CHIP	47	5%	1/10W	R442	1-216-029-00	RES-CHIP	150	5%	1/10W
R218	1-216-017-91	RES-CHIP	47	5%	1/10W	R443	1-216-025-91	RES-CHIP	100	5%	1/10W
R219	1-216-295-91	SHORT	0			R444	1-216-025-91	RES-CHIP	100	5%	1/10W
R220	1-216-017-91	RES-CHIP	47	5%	1/10W	R445	1-216-025-91	RES-CHIP	100	5%	1/10W
R221	1-216-295-91	SHORT	0			R446	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R222	1-216-017-91	RES-CHIP	47	5%	1/10W	R447	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R223	1-216-017-91	RES-CHIP	47	5%	1/10W	R448	1-216-045-00	RES-CHIP	680	5%	1/10W
R224	1-216-017-91	RES-CHIP	47	5%	1/10W	R449	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R225	1-216-017-91	RES-CHIP	47	5%	1/10W	R450	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R226	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R451	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R230	1-216-067-00	RES-CHIP	5.6K	5%	1/10W (PFM-510A2W)	R452	1-216-697-91	METAL CHIP	82K	0.50%	1/10W
R231	1-216-073-00	RES-CHIP	10K	5%	1/10W	R453	1-216-295-91	SHORT	0		
R232	1-216-073-00	RES-CHIP	10K	5%	1/10W	R456	1-216-295-91	SHORT	0		
R233	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R500	1-216-025-91	RES-CHIP	100	5%	1/10W
R234	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R501	1-216-025-91	RES-CHIP	100	5%	1/10W
R235	1-216-049-91	RES-CHIP	1K	5%	1/10W	R502	1-216-001-00	RES-CHIP	10	5%	1/10W
R236	1-216-049-91	RES-CHIP	1K	5%	1/10W	R503	1-216-001-00	RES-CHIP	10	5%	1/10W
R238	1-216-295-91	SHORT	0			R504	1-216-001-00	RES-CHIP	10	5%	1/10W
R239	1-216-295-91	SHORT	0			R505	1-216-001-00	RES-CHIP	10	5%	1/10W
R240	1-216-295-91	SHORT	0			R506	1-216-001-00	RES-CHIP	10	5%	1/10W
R244	1-216-295-91	SHORT	0			R507	1-216-001-00	RES-CHIP	10	5%	1/10W
R245	1-216-295-91	SHORT	0			R508	1-216-001-00	RES-CHIP	10	5%	1/10W
R246	1-216-295-91	SHORT	0			R509	1-216-001-00	RES-CHIP	10	5%	1/10W
R248	1-216-295-91	SHORT	0			R510	1-216-001-00	RES-CHIP	10	5%	1/10W
R249	1-216-295-91	SHORT	0			R511	1-216-001-00	RES-CHIP	10	5%	1/10W
R250	1-216-295-91	SHORT	0			R512	1-216-001-00	RES-CHIP	10	5%	1/10W
R251	1-216-295-91	SHORT	0			R513	1-216-001-00	RES-CHIP	10	5%	1/10W
R252	1-216-295-91	SHORT	0			R514	1-216-001-00	RES-CHIP	10	5%	1/10W
R253	1-216-295-91	SHORT	0			R515	1-216-031-00	RES-CHIP	180	5%	1/10W
R254	1-216-295-91	SHORT	0			R516	1-216-025-91	RES-CHIP	100	5%	1/10W
R255	1-216-295-91	SHORT	0			R517	1-216-025-91	RES-CHIP	100	5%	1/10W
R256	1-216-295-91	SHORT	0			R518	1-216-001-00	RES-CHIP	10	5%	1/10W
R257	1-216-073-00	RES-CHIP	10K	5%	1/10W	R519	1-216-001-00	RES-CHIP	10	5%	1/10W
R258	1-216-073-00	RES-CHIP	10K	5%	1/10W	R520	1-216-073-00	RES-CHIP	10K	5%	1/10W
R259	1-216-073-00	RES-CHIP	10K	5%	1/10W	R521	1-216-049-91	RES-CHIP	1K	5%	1/10W
R263	1-216-681-11	METAL CHIP	18K	0.50%	1/10W (PFM-510A2W)	R525	1-216-049-91	RES-CHIP	1K	5%	1/10W
R269	1-216-295-91	SHORT	0 (PFM-510A2W)			R526	1-216-025-91	RES-CHIP	100	5%	1/10W
R270	1-216-295-91	SHORT	0 (PFM-510A2W)			R527	1-216-025-91	RES-CHIP	100	5%	1/10W
R271	1-216-295-91	SHORT	0 (PFM-510A2W)			R528	1-216-073-00	RES-CHIP	10K	5%	1/10W
R272	1-216-295-91	SHORT	0 (PFM-510A2W)			R529	1-216-073-00	RES-CHIP	10K	5%	1/10W
R273	1-216-295-91	SHORT	0 (PFM-500A3W)			R530	1-216-073-00	RES-CHIP	10K	5%	1/10W
R274	1-216-295-91	SHORT	0 (PFM-510A2W)			R531	1-216-025-91	RES-CHIP	100	5%	1/10W
R275	1-216-295-91	SHORT	0 (PFM-510A2W)			R532	1-216-073-00	RES-CHIP	10K	5%	1/10W
R276	1-216-295-91	SHORT	0 (PFM-510A2W)			R533	1-216-097-91	RES-CHIP	100K	5%	1/10W
R277	1-216-295-91	SHORT	0			R534	1-216-025-91	RES-CHIP	100	5%	1/10W
R278	1-216-295-91	SHORT	0 (PFM-510A2W)			R535	1-216-025-91	RES-CHIP	100	5%	1/10W
R279	1-216-295-91	SHORT	0 (PFM-500A3W)			R536	1-216-017-91	RES-CHIP	47	5%	1/10W
R280	1-216-295-91	SHORT	0 (PFM-500A3W)			R537	1-216-017-91	RES-CHIP	47	5%	1/10W
R281	1-216-295-91	SHORT	0 (PFM-510A2W)			R538	1-216-017-91	RES-CHIP	47	5%	1/10W

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R539	1-216-097-91	RES-CHIP	100K	5%	1/10W	R604	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R540	1-216-073-00	RES-CHIP	10K	5%	1/10W	R605	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R541	1-216-073-00	RES-CHIP	10K	5%	1/10W	R606	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R542	1-216-073-00	RES-CHIP	10K	5%	1/10W	R607	1-216-001-00	RES-CHIP	10	5%	1/10W
R543	1-216-025-91	RES-CHIP	100	5%	1/10W	R608	1-216-001-00	RES-CHIP	10	5%	1/10W
R544	1-216-025-91	RES-CHIP	100	5%	1/10W	R609	1-216-017-91	RES-CHIP	47	5%	1/10W
R545	1-216-025-91	RES-CHIP	100	5%	1/10W	R610	1-216-017-91	RES-CHIP	47	5%	1/10W
R546	1-216-025-91	RES-CHIP	100	5%	1/10W	R611	1-216-017-91	RES-CHIP	47	5%	1/10W
R547	1-216-025-91	RES-CHIP	100	5%	1/10W	R612	1-216-017-91	RES-CHIP	47	5%	1/10W
R548	1-216-025-91	RES-CHIP	100	5%	1/10W	R613	1-216-017-91	RES-CHIP	47	5%	1/10W
R549	1-216-025-91	RES-CHIP	100	5%	1/10W	R614	1-216-017-91	RES-CHIP	47	5%	1/10W
R550	1-216-009-91	RES-CHIP	22	5%	1/10W	R615	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R551	1-216-025-91	RES-CHIP	100	5%	1/10W	R616	1-216-083-00	RES-CHIP	27K	5%	1/10W
R552	1-216-073-00	RES-CHIP	10K	5%	1/10W	R617	1-216-017-91	RES-CHIP	47	5%	1/10W
R553	1-216-025-91	RES-CHIP	100	5%	1/10W	R618	1-216-083-00	RES-CHIP	27K	5%	1/10W
R554	1-216-025-91	RES-CHIP	100	5%	1/10W	R622	1-216-031-00	RES-CHIP	180	5%	1/10W
R555	1-216-025-91	RES-CHIP	100	5%	1/10W	R700	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R556	1-216-073-00	RES-CHIP	10K	5%	1/10W	R701	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R557	1-216-025-91	RES-CHIP	100	5%	1/10W	R702	1-216-025-91	RES-CHIP	100	5%	1/10W
R558	1-216-025-91	RES-CHIP	100	5%	1/10W	R703	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R559	1-216-025-91	RES-CHIP	100	5%	1/10W	R704	1-216-085-00	RES-CHIP	33K	5%	1/10W
R560	1-216-025-91	RES-CHIP	100	5%	1/10W	R705	1-216-097-91	RES-CHIP	100K	5%	1/10W
R561	1-216-025-91	RES-CHIP	100	5%	1/10W	R706	1-216-097-91	RES-CHIP	100K	5%	1/10W
R562	1-216-025-91	RES-CHIP	100	5%	1/10W	R707	1-216-097-91	RES-CHIP	100K	5%	1/10W
R563	1-216-634-11	METAL CHIP	200	0.50%	1/10W	R708	1-216-097-91	RES-CHIP	100K	5%	1/10W
R564	1-216-662-11	METAL CHIP	3K	0.50%	1/10W	R709	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R565	1-216-025-91	RES-CHIP	100	5%	1/10W	R710	1-216-073-00	RES-CHIP	10K	5%	1/10W
R566	1-216-025-91	RES-CHIP	100	5%	1/10W	R711	1-216-049-91	RES-CHIP	1K	5%	1/10W
R567	1-216-025-91	RES-CHIP	100	5%	1/10W	R712	1-216-049-91	RES-CHIP	1K	5%	1/10W
R568	1-216-025-91	RES-CHIP	100	5%	1/10W	R713	1-216-049-91	RES-CHIP	1K	5%	1/10W
R569	1-216-025-91	RES-CHIP	100	5%	1/10W	R714	1-216-049-91	RES-CHIP	1K	5%	1/10W
R570	1-216-025-91	RES-CHIP	100	5%	1/10W	R715	1-216-073-00	RES-CHIP	10K	5%	1/10W
R571	1-216-025-91	RES-CHIP	100	5%	1/10W	R716	1-249-381-11	CARBON	1	5%	1/4W
R572	1-216-025-91	RES-CHIP	100	5%	1/10W	R717	1-216-049-91	RES-CHIP	1K	5%	1/10W
R573	1-216-025-91	RES-CHIP	100	5%	1/10W	R718	1-216-073-00	RES-CHIP	10K	5%	1/10W
R574	1-216-025-91	RES-CHIP	100	5%	1/10W	R719	1-216-073-00	RES-CHIP	10K	5%	1/10W
R575	1-216-025-91	RES-CHIP	100	5%	1/10W	R720	1-216-001-00	RES-CHIP	10	5%	1/10W
R576	1-216-025-91	RES-CHIP	100	5%	1/10W	R721	1-216-073-00	RES-CHIP	10K	5%	1/10W
R577	1-216-025-91	RES-CHIP	100	5%	1/10W	R722	1-216-073-00	RES-CHIP	10K	5%	1/10W
R578	1-216-017-91	RES-CHIP	47	5%	1/10W	R723	1-216-001-00	RES-CHIP	10	5%	1/10W
R579	1-216-017-91	RES-CHIP	47	5%	1/10W	R724	1-216-001-00	RES-CHIP	10	5%	1/10W
R580	1-216-025-91	RES-CHIP	100	5%	1/10W	R725	1-216-001-00	RES-CHIP	10	5%	1/10W
R581	1-216-025-91	RES-CHIP	100	5%	1/10W	R726	1-216-001-00	RES-CHIP	10	5%	1/10W
R582	1-216-025-91	RES-CHIP	100	5%	1/10W	R727	1-216-001-00	RES-CHIP	10	5%	1/10W
R583	1-216-025-91	RES-CHIP	100	5%	1/10W	R728	1-216-073-00	RES-CHIP	10K	5%	1/10W
R584	1-216-025-91	RES-CHIP	100	5%	1/10W	R729	1-216-073-00	RES-CHIP	10K	5%	1/10W
R585	1-216-025-91	RES-CHIP	100	5%	1/10W	R730	1-216-025-91	RES-CHIP	100	5%	1/10W
R586	1-216-025-91	RES-CHIP	100	5%	1/10W	R731	1-216-025-91	RES-CHIP	100	5%	1/10W
R587	1-216-025-91	RES-CHIP	100	5%	1/10W	R732	1-216-025-91	RES-CHIP	100	5%	1/10W
R588	1-216-025-91	RES-CHIP	100	5%	1/10W	R733	1-216-025-91	RES-CHIP	100	5%	1/10W
R589	1-216-025-91	RES-CHIP	100	5%	1/10W	R800	1-216-033-00	RES-CHIP	220	5%	1/10W
R590	1-216-025-91	RES-CHIP	100	5%	1/10W	R801	1-216-033-00	RES-CHIP	220	5%	1/10W
R591	1-216-025-91	RES-CHIP	100	5%	1/10W	R802	1-216-049-91	RES-CHIP	1K	5%	1/10W
R592	1-216-025-91	RES-CHIP	100	5%	1/10W	R803	1-216-097-91	RES-CHIP	100K	5%	1/10W
R593	1-216-025-91	RES-CHIP	100	5%	1/10W	R804	1-216-081-00	RES-CHIP	22K	5%	1/10W
R594	1-216-025-91	RES-CHIP	100	5%	1/10W	R805	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R595	1-216-025-91	RES-CHIP	100	5%	1/10W	R806	1-216-081-00	RES-CHIP	22K	5%	1/10W
R596	1-216-025-91	RES-CHIP	100	5%	1/10W	R807	1-216-081-00	RES-CHIP	22K	5%	1/10W
R597	1-216-025-91	RES-CHIP	100	5%	1/10W	R808	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R598	1-216-017-91	RES-CHIP	47	5%	1/10W	R809	1-216-081-00	RES-CHIP	22K	5%	1/10W
R599	1-216-089-91	RES-CHIP	47K	5%	1/10W	R810	1-216-081-00	RES-CHIP	22K	5%	1/10W
R600	1-216-001-00	RES-CHIP	10	5%	1/10W	R811	1-216-089-91	RES-CHIP	47K	5%	1/10W
R601	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R812	1-216-089-91	RES-CHIP	47K	5%	1/10W
R602	1-216-049-91	RES-CHIP	1K	5%	1/10W	R813	1-216-081-00	RES-CHIP	22K	5%	1/10W
R603	1-216-001-00	RES-CHIP	10	5%	1/10W	R814	1-216-061-00	RES-CHIP	3.3K	5%	1/10W

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R815	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1051	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R816	1-216-033-00	RES-CHIP	220	5%	1/10W	R1052	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R817	1-216-019-00	RES-CHIP	56	5%	1/10W	R1053	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R818	1-216-033-00	RES-CHIP	220	5%	1/10W	R1054	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R819	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1055	1-216-073-00	RES-CHIP	10K	5%	1/10W
R820	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1056	1-216-652-11	METAL CHIP	1.1K	0.50%	1/10W
R821	1-216-019-00	RES-CHIP	56	5%	1/10W	R1057	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R822	1-216-097-91	RES-CHIP	100K	5%	1/10W	R1058	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R823	1-249-385-11	CARBON	2.2	5%	1/4W	R1059	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R824	1-216-097-91	RES-CHIP	100K	5%	1/10W	R1060	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R825	1-216-097-91	RES-CHIP	100K	5%	1/10W	R1062	1-216-049-91	RES-CHIP	1K	5%	1/10W
R826	1-249-385-11	CARBON	2.2	5%	1/4W	R1063	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R828	1-216-081-00	RES-CHIP	22K	5%	1/10W	R1064	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R829	1-216-081-00	RES-CHIP	22K	5%	1/10W	R1065	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R830	1-216-369-00	METAL OXIDE	1	5%	2W	R1066	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1000	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R1067	1-216-017-91	RES-CHIP	47	5%	1/10W
R1001	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	R1068	1-216-117-00	RES-CHIP	680K	5%	1/10W
R1002	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R1069	1-216-017-91	RES-CHIP	47	5%	1/10W
R1003	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	R1070	1-216-021-00	RES-CHIP	68	5%	1/10W
R1004	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R1071	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1005	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	R1073	1-216-041-00	RES-CHIP	470	5%	1/10W
R1006	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R1074	1-216-295-91	SHORT	0		
R1007	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1075	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1008	1-216-049-91	RES-CHIP	1K	5%	1/10W	R1076	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1009	1-216-049-91	RES-CHIP	1K	5%	1/10W	R1077	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1010	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	R1078	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1011	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R1079	1-216-079-00	RES-CHIP	18K	5%	1/10W
R1012	1-216-041-00	RES-CHIP	470	5%	1/10W	R1080	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1013	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	R1081	1-216-025-91	RES-CHIP	100	5%	1/10W
R1014	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R1082	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1015	1-216-025-91	RES-CHIP	100	5%	1/10W	R1083	1-216-001-00	RES-CHIP	10	5%	1/10W
R1016	1-216-025-91	RES-CHIP	100	5%	1/10W	R1084	1-216-043-91	RES-CHIP	560	5%	1/10W
R1017	1-216-025-91	RES-CHIP	100	5%	1/10W	R1085	1-216-295-91	SHORT	0		
R1018	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1086	1-216-295-91	SHORT	0		
R1019	1-216-049-91	RES-CHIP	1K	5%	1/10W	R1087	1-216-295-91	SHORT	0		
R1020	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1088	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1021	1-216-049-91	RES-CHIP	1K	5%	1/10W	R1090	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1022	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1091	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1023	1-216-049-91	RES-CHIP	1K	5%	1/10W	R1092	1-216-295-91	SHORT	0		
R1024	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1093	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1025	1-216-025-91	RES-CHIP	100	5%	1/10W	R1094	1-216-001-00	RES-CHIP	10	5%	1/10W
R1026	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1095	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1027	1-216-025-91	RES-CHIP	100	5%	1/10W	R1096	1-216-045-00	RES-CHIP	680	5%	1/10W
R1028	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1097	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1029	1-216-025-91	RES-CHIP	100	5%	1/10W	R1098	1-216-023-00	RES-CHIP	82	5%	1/10W
R1030	1-216-045-00	RES-CHIP	680	5%	1/10W	R1099	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1031	1-216-045-00	RES-CHIP	680	5%	1/10W	R1100	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1032	1-216-045-00	RES-CHIP	680	5%	1/10W	R1101	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1033	1-216-025-91	RES-CHIP	100	5%	1/10W	R1102	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1034	1-216-025-91	RES-CHIP	100	5%	1/10W	R1103	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1035	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R1104	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1036	1-216-025-91	RES-CHIP	100	5%	1/10W	R1105	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R1037	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R1109	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1038	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R1110	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1039	1-216-097-91	RES-CHIP	100K	5%	1/10W	R1111	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1040	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	R1115	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1041	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	R1116	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1043	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1117	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1044	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1118	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1045	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1119	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1046	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R1120	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1047	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R1121	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1048	1-216-676-11	METAL CHIP	11K	0.50%	1/10W	R1122	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R1049	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	R1123	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1050	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1124	1-216-049-91	RES-CHIP	1K	5%	1/10W

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R1126	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1192	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1127	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1193	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1129	1-216-676-11	METAL CHIP	11K	0.50%	1/10W	R1194	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1130	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	R1195	1-216-025-91	RES-CHIP	100	5%	1/10W
R1131	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	R1196	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1132	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1197	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1133	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1198	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1134	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1199	1-216-025-91	RES-CHIP	100	5%	1/10W
R1135	1-216-295-91	SHORT	0			R1200	1-216-025-91	RES-CHIP	100	5%	1/10W
R1136	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1201	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1137	1-216-025-91	RES-CHIP	100	5%	1/10W	R1202	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1138	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1203	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1139	1-216-037-00	RES-CHIP	330	5%	1/10W	R1204	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1140	1-216-643-11	METAL CHIP	470	0.50%	1/10W	R1205	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1141	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1206	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R1142	1-216-049-91	RES-CHIP	1K	5%	1/10W	R1207	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1143	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1208	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1144	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1209	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1145	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	R1210	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R1146	1-216-045-00	RES-CHIP	680	5%	1/10W	R1211	1-216-295-91	SHORT	0		
R1147	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R1212	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1148	1-216-025-91	RES-CHIP	100	5%	1/10W	R1213	1-216-641-11	METAL CHIP	390	0.50%	1/10W
R1149	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	R1214	1-216-295-91	SHORT	0		
R1150	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R1215	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R1151	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1216	1-216-295-91	SHORT	0		
R1152	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1217	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1153	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R1218	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1154	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	R1219	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1155	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R1220	1-216-043-91	RES-CHIP	560	5%	1/10W
R1156	1-216-643-11	METAL CHIP	470	0.50%	1/10W	R1221	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1157	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1222	1-216-043-91	RES-CHIP	560	5%	1/10W
R1158	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R1223	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1159	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R1224	1-216-043-91	RES-CHIP	560	5%	1/10W
R1160	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R1225	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1161	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R1226	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1162	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R1227	1-216-033-00	RES-CHIP	220	5%	1/10W
R1163	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R1228	1-216-025-91	RES-CHIP	100	5%	1/10W
R1164	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R1229	1-216-025-91	RES-CHIP	100	5%	1/10W
R1165	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	R1230	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1166	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R1231	1-216-037-00	RES-CHIP	330	5%	1/10W
R1167	1-216-025-91	RES-CHIP	100	5%	1/10W	R1232	1-216-033-00	RES-CHIP	220	5%	1/10W
R1168	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R1233	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R1169	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1234	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R1170	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R1235	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1171	1-216-643-11	METAL CHIP	470	0.50%	1/10W	R1236	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1172	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R1237	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1173	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R1238	1-216-062-00	RES-CHIP	3.6K	5%	1/10W
R1174	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R1240	1-216-295-91	SHORT	0		
R1175	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	R1241	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1176	1-216-049-91	RES-CHIP	1K	5%	1/10W	R1242	1-216-295-91	SHORT	0		
R1177	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	R1243	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1178	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R1244	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1179	1-218-758-11	METAL CHIP	180K	0.50%	1/10W	R1247	1-216-295-91	SHORT	0		
R1180	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	R1249	1-216-295-91	SHORT	0		
R1181	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R1250	1-216-295-91	SHORT	0		
R1182	1-216-025-91	RES-CHIP	100	5%	1/10W	R1251	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1183	1-218-756-11	METAL CHIP	150K	0.50%	1/10W	R1252	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R1184	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1253	1-216-295-91	SHORT	0		
R1185	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1254	1-216-295-91	SHORT	0		
R1186	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1256	1-216-295-91	SHORT	0		
R1187	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1261	1-216-646-11	METAL CHIP	620	0.50%	1/10W
R1188	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1262	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R1189	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1263	1-216-035-00	RES-CHIP	270	5%	1/10W
R1190	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R1264	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1191	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1265	1-216-635-11	METAL CHIP	220	0.50%	1/10W

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R1266	1-216-635-11	METAL CHIP	220	0.50%	1/10W	R4008	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1267	1-216-295-91	SHORT	0			R4009	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1269	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R4010	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1270	1-216-045-00	RES-CHIP	680	5%	1/10W	R4011	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1271	1-216-025-91	RES-CHIP	100	5%	1/10W	R4012	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1272	1-216-025-91	RES-CHIP	100	5%	1/10W	R4013	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R1273	1-216-047-91	RES-CHIP	820	5%	1/10W	R4014	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1274	1-216-025-91	RES-CHIP	100	5%	1/10W	R4015	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1275	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R4016	1-216-085-00	RES-CHIP	33K	5%	1/10W
R1276	1-216-045-00	RES-CHIP	680	5%	1/10W	R4017	1-216-001-00	RES-CHIP	10	5%	1/10W
R1277	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4018	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1278	1-216-025-91	RES-CHIP	100	5%	1/10W	R4019	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R1279	1-216-117-00	RES-CHIP	680K	5%	1/10W	R4020	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1280	1-216-066-00	RES-CHIP	5.1K	5%	1/10W	R4021	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1281	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R4022	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R1282	1-216-045-00	RES-CHIP	680	5%	1/10W	R4023	1-216-636-11	METAL CHIP	240	0.50%	1/10W
R1283	1-216-117-00	RES-CHIP	680K	5%	1/10W	R4024	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1284	1-216-295-91	SHORT	0			R4025	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1286	1-216-089-91	RES-CHIP	47K	5%	1/10W	R4026	1-216-001-00	RES-CHIP	10	5%	1/10W
R1287	1-216-037-00	RES-CHIP	330	5%	1/10W	R4027	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1288	1-216-295-91	SHORT	0			R4028	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1289	1-216-037-00	RES-CHIP	330	5%	1/10W	R4029	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1290	1-216-077-91	RES-CHIP	15K	5%	1/10W	R4030	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1291	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	R4031	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1292	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W	R4032	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1293	1-216-077-91	RES-CHIP	15K	5%	1/10W	R4033	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1294	1-216-077-91	RES-CHIP	15K	5%	1/10W	R4034	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1295	1-216-295-91	SHORT	0			R4035	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1296	1-216-295-91	SHORT	0			R4036	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1297	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	R4037	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1298	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W	R4038	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1299	1-216-025-91	RES-CHIP	100	5%	1/10W	R4039	1-216-105-91	RES-CHIP	220K	5%	1/10W
R1300	1-216-025-91	RES-CHIP	100	5%	1/10W	R4040	1-216-097-91	RES-CHIP	100K	5%	1/10W
R1301	1-216-295-91	SHORT	0			R4041	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1304	1-216-295-91	SHORT	0			R4042	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1305	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	R4043	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1306	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R4044	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1308	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	R4045	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1309	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R4046	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1311	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R4047	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1313	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	R4048	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R1314	1-216-093-91	RES-CHIP	68K	5%	1/10W	R4049	1-216-626-11	METAL CHIP	91	0.50%	1/10W
R1315	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	R4050	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1316	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R4051	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1317	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	R4052	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1318	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R4053	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R1319	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	R4054	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1320	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	R4055	1-216-083-00	RES-CHIP	27K	5%	1/10W
R2000	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4056	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2201	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4057	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2202	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4058	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2203	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4059	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R2500	1-216-627-11	METAL CHIP	100	0.50%	1/10W	R4060	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2501	1-216-627-11	METAL CHIP	100	0.50%	1/10W	R4061	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2502	1-216-627-11	METAL CHIP	100	0.50%	1/10W	R4062	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2503	1-216-627-11	METAL CHIP	100	0.50%	1/10W	R4063	1-216-636-11	METAL CHIP	240	0.50%	1/10W
R2504	1-216-627-11	METAL CHIP	100	0.50%	1/10W	R4064	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R4000	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4065	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R4001	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R4066	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R4002	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R4067	1-216-636-11	METAL CHIP	240	0.50%	1/10W
R4003	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R4068	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R4004	1-216-025-91	RES-CHIP	100	5%	1/10W	R4069	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R4005	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R4070	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4006	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R4071	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R4007	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R4072	1-216-097-91	RES-CHIP	100K	5%	1/10W

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R4073	1-216-025-91	RES-CHIP	100	5%	1/10W	R4141	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4074	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R4142	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R4076	1-216-091-00	RES-CHIP	56K	5%	1/10W	R4143	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R4077	1-216-091-00	RES-CHIP	56K	5%	1/10W	R4144	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R4078	1-216-091-00	RES-CHIP	56K	5%	1/10W	R4145	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R4079	1-216-091-00	RES-CHIP	56K	5%	1/10W	<RESISTOR BLOCK>					
R4080	1-216-097-91	RES-CHIP	100K	5%	1/10W	RB200	1-233-576-11	RES, CHIP NETWORK	100		
R4081	1-216-091-00	RES-CHIP	56K	5%	1/10W	RB201	1-233-576-11	RES, CHIP NETWORK	100		
R4082	1-216-097-91	RES-CHIP	100K	5%	1/10W	RB202	1-233-576-11	RES, CHIP NETWORK	100		
R4083	1-216-049-91	RES-CHIP	1K	5%	1/10W	RB203	1-233-576-11	RES, CHIP NETWORK	100		
R4084	1-216-049-91	RES-CHIP	1K	5%	1/10W	RB204	1-233-576-11	RES, CHIP NETWORK	100		
R4085	1-216-091-00	RES-CHIP	56K	5%	1/10W	RB205	1-233-576-11	RES, CHIP NETWORK	100		
R4086	1-216-295-91	SHORT	0			RB206	1-233-576-11	RES, CHIP NETWORK	100		
R4088	1-216-073-00	RES-CHIP	10K	5%	1/10W	RB207	1-233-576-11	RES, CHIP NETWORK	100		
R4089	1-216-081-00	RES-CHIP	22K	5%	1/10W	RB208	1-233-576-11	RES, CHIP NETWORK	100		
R4090	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	RB209	1-233-576-11	RES, CHIP NETWORK	100		
R4091	1-216-049-91	RES-CHIP	1K	5%	1/10W	RB210	1-233-576-11	RES, CHIP NETWORK	100		
R4092	1-216-682-11	METAL CHIP	20K	0.50%	1/10W	RB211	1-233-576-11	RES, CHIP NETWORK	100		
R4093	1-216-025-91	RES-CHIP	100	5%	1/10W	RB212	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4094	1-216-089-91	RES-CHIP	47K	5%	1/10W	RB213	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4095	1-216-033-00	RES-CHIP	220	5%	1/10W	RB214	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4096	1-216-133-00	RES-CHIP	3.3M	5%	1/10W	RB215	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4097	1-216-644-11	METAL CHIP	510	0.50%	1/10W	RB216	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4098	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	RB217	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4099	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	RB218	1-233-575-11	RES, CHIP NETWORK	22		
R4100	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W	RB219	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4101	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	RB220	1-233-575-11	RES, CHIP NETWORK	22		
R4102	1-216-097-91	RES-CHIP	100K	5%	1/10W	RB221	1-233-575-11	RES, CHIP NETWORK	22		
R4103	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	RB222	1-233-575-11	RES, CHIP NETWORK	22		
R4104	1-216-031-00	RES-CHIP	180	5%	1/10W	RB223	1-233-575-11	RES, CHIP NETWORK	22		
R4105	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	RB224	1-233-575-11	RES, CHIP NETWORK	22		
R4106	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	RB225	1-233-575-11	RES, CHIP NETWORK	22		
R4107	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	RB226	1-233-575-11	RES, CHIP NETWORK	22		
R4109	1-216-631-11	METAL CHIP	150	0.50%	1/10W	RB227	1-233-575-11	RES, CHIP NETWORK	22		
R4110	1-216-073-00	RES-CHIP	10K	5%	1/10W	RB228	1-233-575-11	RES, CHIP NETWORK	22		
R4111	1-216-637-11	METAL CHIP	270	0.50%	1/10W	RB229	1-233-575-11	RES, CHIP NETWORK	22		
R4112	1-216-073-00	RES-CHIP	10K	5%	1/10W	RB230	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4113	1-216-631-11	METAL CHIP	150	0.50%	1/10W	RB231	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4114	1-216-045-00	RES-CHIP	680	5%	1/10W	RB232	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4115	1-216-043-91	RES-CHIP	560	5%	1/10W	RB233	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4116	1-216-045-00	RES-CHIP	680	5%	1/10W	RB234	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4117	1-216-045-00	RES-CHIP	680	5%	1/10W	RB235	1-239-409-11	RES, CHIP NETWORK	47 (3216)		
R4118	1-216-645-11	METAL CHIP	560	0.50%	1/10W	<THERMISTOR>					
R4119	1-216-645-11	METAL CHIP	560	0.50%	1/10W	TH100	1-809-350-21	THERMISTOR, NTC	(2125)		
R4120	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	<CRYSTAL>					
R4121	1-216-045-00	RES-CHIP	680	5%	1/10W	X200	1-527-722-00	VIBRATOR, CRYSTAL	(14.31818MHz)		
R4122	1-216-045-00	RES-CHIP	680	5%	1/10W	X500	1-579-886-11	VIBRATOR, CRYSTAL	(32.768kHz)		
R4123	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	X501	1-781-659-21	VIBRATOR, CRYSTAL	(12.288MHz)		
R4124	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	X4000	1-760-457-11	VIBRATOR, CRYSTAL (VCO)	(17.7MHz)		
R4125	1-216-699-91	METAL CHIP	100K	0.50%	1/10W	X4001	1-527-722-00	VIBRATOR, CRYSTAL	(14.3MHz)		
R4126	1-216-699-91	METAL CHIP	100K	0.50%	1/10W	X4002	1-579-583-11	VIBRATOR, CERAMIC	(500kHz)		
R4127	1-216-045-00	RES-CHIP	680	5%	1/10W	X4003	1-577-611-11	OSCILATOR, CERAMIC	(500kHz)		
R4128	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	*****					
R4129	1-216-677-11	METAL CHIP	12K	0.50%	1/10W						
R4130	1-216-295-91	SHORT	0								
R4131	1-216-295-91	SHORT	0								
R4132	1-216-295-91	SHORT	0								
R4133	1-216-677-11	METAL CHIP	12K	0.50%	1/10W						
R4134	1-216-677-11	METAL CHIP	12K	0.50%	1/10W						
R4135	1-216-699-91	METAL CHIP	100K	0.50%	1/10W						
R4136	1-216-699-91	METAL CHIP	100K	0.50%	1/10W						
R4137	1-216-691-11	METAL CHIP	47K	0.50%	1/10W						
R4138	1-216-679-11	METAL CHIP	15K	0.50%	1/10W						
R4139	1-216-069-00	RES-CHIP	6.8K	5%	1/10W						
R4140	1-216-683-11	METAL CHIP	22K	0.50%	1/10W						

Ref.No.	Part No.	Description	Remark			
	* A-1131-596-A B1 MOUNT *****					
	<CAPACITOR>					
C401	1-126-603-11	ELECT CHIP	4.7μF	20%	16V	
C402	1-126-603-11	ELECT CHIP	4.7μF	20%	16V	
C403	1-126-603-11	ELECT CHIP	4.7μF	20%	16V	
C404	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C405	1-124-779-00	ELECT CHIP	10μF	20%	16V	
C406	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C407	1-124-779-00	ELECT CHIP	10μF	20%	16V	
C408	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C409	1-124-779-00	ELECT CHIP	10μF	20%	16V	
C410	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C411	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C412	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C413	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C414	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C415	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C416	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
	<CONNECTOR>					
CN401	1-774-551-11	CONNECTOR, BOARD TO BOARD 5P				
CN402	1-774-551-11	CONNECTOR, BOARD TO BOARD 5P				
CN403	1-506-468-11	PIN, CONNECTOR 3P				
	<IC>					
IC401	8-759-239-55	IC TC74HC123AF(EL)				
	<TRANSISTOR>					
Q401	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q402	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q406	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q407	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q408	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q409	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q410	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q411	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q412	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q413	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q414	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q415	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q416	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q417	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				
Q418	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q419	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q420	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
Q421	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				
	<RESISTOR>					
R401	1-216-025-91	RES-CHIP	100	5%	1/10W	
R402	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R403	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R404	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	
R405	1-216-025-91	RES-CHIP	100	5%	1/10W	

Ref.No.	Part No.	Description	Remark		
R406	1-216-049-91	RES-CHIP	1K	5%	1/10W
R407	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R408	1-216-025-91	RES-CHIP	100	5%	1/10W
R409	1-216-049-91	RES-CHIP	1K	5%	1/10W
R410	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R411	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R412	1-216-025-91	RES-CHIP	100	5%	1/10W
R413	1-216-049-91	RES-CHIP	1K	5%	1/10W
R414	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R415	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R416	1-216-025-91	RES-CHIP	100	5%	1/10W
R417	1-216-049-91	RES-CHIP	1K	5%	1/10W
R418	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R419	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R420	1-216-025-91	RES-CHIP	100	5%	1/10W
R421	1-216-049-91	RES-CHIP	1K	5%	1/10W
R422	1-216-009-91	RES-CHIP	22	5%	1/10W
R423	1-216-009-91	RES-CHIP	22	5%	1/10W
R424	1-216-009-91	RES-CHIP	22	5%	1/10W
R425	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R426	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R427	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R428	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R429	1-216-699-91	METAL CHIP	100K	0.50%	1/10W
R431	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R432	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R433	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R434	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R435	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R436	1-216-677-11	METAL CHIP	12K	0.50%	1/10W

* A-1311-854-A G1 MOUNT *****					
<CONNECTOR>					
CN5001	1-506-488-11	PIN, CONNECTOR 9P			
CN5002	1-506-483-21	PIN, CONNECTOR 4P			
CN5003	* 1-564-013-11	PIN, CONNECTOR 3P			
CN5004	1-506-490-21	PIN, CONNECTOR 11P			
CN5005	1-506-489-11	PIN, CONNECTOR 10P			
CN5006	* 1-785-108-11	PIN, CONNECTOR (PC BOARD) 40P (PFM-500A3W)			
CN5006	* 1-785-109-11	SOCKET, CONNECTOR 40P (PFM-510A2W)			

* A-1311-857-A G2 MOUNT (PFM-500A3W) * A-1311-853-A G2 MOUNT (PFM-510A2W) *****					
<CONNECTOR>					
CN4001	* 1-564-517-11	PLUG, CONNECTOR 2P			
CN4002	* 1-564-519-11	PLUG, CONNECTOR 4P			
CN4003	* 1-564-524-11	PLUG, CONNECTOR 9P			
CN4004	* 1-564-519-11	PLUG, CONNECTOR 4P			
CN4005	* 1-564-519-11	PLUG, CONNECTOR 4P			

Ref.No.	Part No.	Description	Remark				Ref.No.	Part No.	Description	Remark			
CN4006	* 1-564-594-11	PLUG, CONNECTOR 15P					C183	1-136-177-00	MYLAR	1μF	5%	50V	
CN4007	* 1-785-109-11	SOCKET, CONNECTOR 40P					C184	1-136-177-00	MYLAR	1μF	5%	50V	
		(PFM-500A3W)					C187	1-104-665-11	ELECT	100μF	20%	10V	
CN4007	* 1-785-108-11	PIN, CONNECTOR (PC BOARD) 40P					C191	1-136-177-00	MYLAR	1μF	5%	50V	
		(PFM-510A2W)					C192	1-136-177-00	MYLAR	1μF	5%	50V	
CN4008	* 1-564-520-11	PLUG, CONNECTOR 5P											

* A-1372-829-A H1 MOUNT													

<CAPACITOR>													
C101	1-128-526-11	ELECT	100μF	20%	16V								
C102	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C103	1-104-664-11	ELECT	47μF	20%	16V								
C104	1-104-664-11	ELECT	47μF	20%	16V								
C105	1-128-526-11	ELECT	100μF	20%	16V								
C106	1-163-113-00	CERAMIC CHIP	68PF	5%	50V								
C107	1-104-664-11	ELECT	47μF	20%	16V								
C108	1-104-664-11	ELECT	47μF	20%	16V								
C109	1-104-664-11	ELECT	47μF	20%	16V								
C110	1-104-664-11	ELECT	47μF	20%	16V								
C111	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C112	1-107-701-11	ELECT	47μF	20%	16V								
C113	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C114	1-104-664-11	ELECT	47μF	20%	16V								
C115	1-104-664-11	ELECT	47μF	20%	16V								
C116	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C117	1-107-701-11	ELECT	47μF	20%	16V								
C118	1-104-664-11	ELECT	47μF	20%	16V								
C119	1-104-664-11	ELECT	47μF	20%	16V								
C120	1-128-526-11	ELECT	100μF	20%	16V								
C121	1-163-113-00	CERAMIC CHIP	68PF	5%	50V								
C122	1-104-664-11	ELECT	47μF	20%	16V								
C123	1-104-664-11	ELECT	47μF	20%	16V								
C124	1-104-664-11	ELECT	47μF	20%	16V								
C125	1-104-664-11	ELECT	47μF	20%	16V								
C126	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C127	1-107-701-11	ELECT	47μF	20%	16V								
C128	1-107-716-11	ELECT	33μF	20%	16V								
C129	1-107-716-11	ELECT	33μF	20%	16V								
C130	1-107-716-11	ELECT	33μF	20%	16V								
C131	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C132	1-128-526-11	ELECT	100μF	20%	16V								
C133	1-128-526-11	ELECT	100μF	20%	16V								
C134	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C135	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C136	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C137	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C138	1-104-664-11	ELECT	47μF	20%	16V								
C139	1-163-263-11	CERAMIC CHIP	330PF	5%	50V								
C140	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C141	1-126-933-11	ELECT	100μF	20%	16V								
C142	1-126-933-11	ELECT	100μF	20%	16V								
C143	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C144	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V								
C145	1-104-664-11	ELECT	47μF	20%	25V								
C146	1-163-253-11	CERAMIC CHIP	120PF	5%	50V								
C147	1-163-253-11	CERAMIC CHIP	120PF	5%	50V								
C148	1-163-253-11	CERAMIC CHIP	120PF	5%	50V								
C181	1-136-177-00	MYLAR	1μF	5%	50V								
C182	1-136-177-00	MYLAR	1μF	5%	50V								
<CONNECTOR>													
CN101	* 1-506-477-11	PIN, CONNECTOR 12P											
CN102	1-506-473-11	PIN, CONNECTOR 8P											
CN103	* 1-564-005-11	PIN, CONNECTOR 6P											
CN104	* 1-774-523-11	PIN, CONNECTOR (PC BOARD) 64P											
CN105	1-506-472-11	PIN, CONNECTOR 7P											
<DIODE>													
D101	8-719-105-91	DIODE RD5.6M-T1B2											
D102	8-719-105-91	DIODE RD5.6M-T1B2											
D103	8-719-105-91	DIODE RD5.6M-T1B2											
D104	8-719-105-91	DIODE RD5.6M-T1B2											
D181	8-719-073-01	DIODE MA111-TX											
D182	8-719-073-01	DIODE MA111-TX											
D183	8-719-073-01	DIODE MA111-TX											
D184	8-719-158-49	DIODE UDZ-TE-17-12B											
D191	8-719-073-01	DIODE MA111-TX											
D192	8-719-073-01	DIODE MA111-TX											
D193	8-719-073-01	DIODE MA111-TX											
D194	8-719-158-49	DIODE UDZ-TE-17-12B											
<IC>													
IC101	8-759-360-07	IC BA7657F-E2											
IC102	8-759-383-61	IC TL026CPS-E05											
IC103	8-759-383-61	IC TL026CPS-E05											
IC104	8-759-970-89	IC BA10358F-T2											
IC105	8-759-390-38	IC LM2940CT-12FL91											
IC106	8-759-366-35	IC TC4W66F(TE12R)											
IC107	8-759-366-35	IC TC4W66F(TE12R)											
<CHIP CONDUCTOR>													
JR102	1-216-295-91	SHORT											
<COIL>													
L101	1-408-615-31	INDUCTOR											
<TRANSISTOR>													
Q101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q102	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q104	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q106	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q107	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q108	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q109	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q110	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q111	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q112	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q113	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
Q114	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R156	1-216-645-11	METAL CHIP	560	0.50%	1/10W
Q181	8-729-216-22	TRANSISTOR 2SA1037K-T-146-S				R157	1-216-643-11	METAL CHIP	470	0.50%	1/10W
						R158	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
Q182	1-801-806-11	TRANSISTOR DTC144EKA-T146				R159	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
Q191	8-729-216-22	TRANSISTOR 2SA1037K-T-146-S				R160	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
Q192	1-801-806-11	TRANSISTOR DTC144EKA-T146									
Q200	1-801-806-11	TRANSISTOR DTC144EKA-T146				R161	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
Q201	1-801-806-11	TRANSISTOR DTC144EKA-T146				R162	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
						R163	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
						R164	1-216-627-11	METAL CHIP	100	0.50%	1/10W
						R165	1-216-627-11	METAL CHIP	100	0.50%	1/10W
	<RESISTOR>										
R101	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R166	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R102	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R167	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R103	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R168	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R104	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R169	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R105	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R170	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R106	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R171	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R107	1-216-639-11	METAL CHIP	330	0.50%	1/10W	R172	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R108	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R173	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R109	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R174	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R110	1-216-639-11	METAL CHIP	330	0.50%	1/10W	R175	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R111	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R176	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R112	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R177	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R113	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R178	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R114	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R179	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R115	1-216-627-11	METAL CHIP	100	0.50%	1/10W	R180	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R116	1-216-641-11	METAL CHIP	390	0.50%	1/10W	R181	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R117	1-216-619-11	METAL CHIP	47	0.50%	1/10W	R182	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R118	1-216-641-11	METAL CHIP	390	0.50%	1/10W	R183	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R119	1-216-645-11	METAL CHIP	560	0.50%	1/10W	R184	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R120	1-216-643-11	METAL CHIP	470	0.50%	1/10W	R185	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R121	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R188	1-216-081-00	RES-CHIP	22K	5%	1/10W
R122	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R191	1-216-699-91	METAL CHIP	100K	0.50%	1/10W
R123	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	R192	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R124	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R193	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R125	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R194	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R126	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R195	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R127	1-216-633-11	METAL CHIP	180	0.50%	1/10W	R196	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R128	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R197	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R129	1-216-619-11	METAL CHIP	47	0.50%	1/10W	R201	1-216-699-91	METAL CHIP	100K	0.50%	1/10W
R130	1-216-641-11	METAL CHIP	390	0.50%	1/10W	R202	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R131	1-216-637-11	METAL CHIP	270	0.50%	1/10W	R203	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R132	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R204	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R133	1-216-645-11	METAL CHIP	560	0.50%	1/10W	R205	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R134	1-216-643-11	METAL CHIP	470	0.50%	1/10W	R206	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R135	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R207	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R136	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R210	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R137	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	R211	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R138	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R212	1-216-073-00	RES-CHIP	10K	5%	1/10W
R139	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	R213	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R140	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R214	1-216-613-11	METAL CHIP	27	0.50%	1/10W
R141	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R215	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R142	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R216	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R143	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R217	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R144	1-216-639-11	METAL CHIP	330	0.50%	1/10W	R218	1-216-073-00	RES-CHIP	10K	5%	1/10W
R145	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R219	1-216-073-00	RES-CHIP	10K	5%	1/10W
R146	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	*****					
R147	1-216-639-11	METAL CHIP	330	0.50%	1/10W						
R148	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W						
R149	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W						
R150	1-216-651-11	METAL CHIP	1K	0.50%	1/10W						
R151	1-216-651-11	METAL CHIP	1K	0.50%	1/10W						
R152	1-216-619-11	METAL CHIP	47	0.50%	1/10W						
R153	1-216-641-11	METAL CHIP	390	0.50%	1/10W						
R154	1-216-619-11	METAL CHIP	47	0.50%	1/10W						
R155	1-216-639-11	METAL CHIP	330	0.50%	1/10W						

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
* A-1372-828-A H6 MOUNT *****						<COIL>					
						L701	1-408-615-31	INDUCTOR	100μH		
						L702	1-408-615-31	INDUCTOR	100μH		
<CAPACITOR>						<TRANSISTOR>					
C701	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V						
C702	1-126-396-11	ELECT CHIP	47μF	20%	16V						
C703	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	Q701	8-729-027-38	TRANSISTOR DTA144EKA-T146			
C704	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	Q702	1-801-806-11	TRANSISTOR DTC144EKA-T146			
C705	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	Q703	1-801-806-11	TRANSISTOR DTC144EKA-T146			
C706	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	Q704	8-729-027-38	TRANSISTOR DTA144EKA-T146			
C707	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V	Q705	1-801-806-11	TRANSISTOR DTC144EKA-T146			
C708	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	Q706	8-729-027-38	TRANSISTOR DTA144EKA-T146			
C709	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	Q707	1-801-806-11	TRANSISTOR DTC144EKA-T146			
C710	1-126-396-11	ELECT CHIP	47μF	20%	16V	Q708	8-729-901-98	TRANSISTOR 2SA1036K-T-146-R			
C711	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	Q709	1-801-806-11	TRANSISTOR DTC144EKA-T146			
C712	1-126-392-11	ELECT CHIP	100μF	20%	6.3V	Q710	1-801-806-11	TRANSISTOR DTC144EKA-T146			
C713	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	Q711	8-729-901-98	TRANSISTOR 2SA1036K-T-146-R			
C714	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V						
C715	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	<RESISTOR>					
<CONNECTOR>						R701	1-216-037-00	RES-CHIP	330	5%	1/10W
CN701	* 1-506-477-11	PIN, CONNECTOR 12P				R702	1-216-294-00	RES-CHIP	10M	5%	1/8W
CN702	1-506-472-11	PIN, CONNECTOR 7P				R703	1-216-049-91	RES-CHIP	1K	5%	1/10W
CN703	* 1-564-005-11	PIN, CONNECTOR 6P				R704	1-216-049-91	RES-CHIP	1K	5%	1/10W
CN704	1-506-474-11	PIN, CONNECTOR 9P				R705	1-216-049-91	RES-CHIP	1K	5%	1/10W
<DIODE>						R706	1-216-009-91	RES-CHIP	22	5%	1/10W
D701	8-719-158-15	DIODE UDZ-TE-17-5.6B				R707	1-216-009-91	RES-CHIP	22	5%	1/10W
D702	8-719-073-01	DIODE MA111-TX				R708	1-216-009-91	RES-CHIP	22	5%	1/10W
D703	8-719-978-04	DIODE DTZ-TT11-3.3B				R709	1-216-009-91	RES-CHIP	22	5%	1/10W
D704	8-719-978-04	DIODE DTZ-TT11-3.3B				R710	1-216-005-00	RES-CHIP	15	5%	1/10W
D705	8-719-073-01	DIODE MA111-TX				R711	1-216-009-91	RES-CHIP	22	5%	1/10W
D706	8-719-073-01	DIODE MA111-TX				R712	1-216-097-91	RES-CHIP	100K	5%	1/10W
D707	8-719-073-01	DIODE MA111-TX				R713	1-216-089-91	RES-CHIP	47K	5%	1/10W
D708	8-719-073-01	DIODE MA111-TX				R714	1-216-049-91	RES-CHIP	1K	5%	1/10W
D709	8-719-073-01	DIODE MA111-TX				R715	1-216-049-91	RES-CHIP	1K	5%	1/10W
D710	8-719-073-01	DIODE MA111-TX				R717	1-216-049-91	RES-CHIP	1K	5%	1/10W
D711	8-719-073-01	DIODE MA111-TX				R718	1-249-381-11	CARBON	1	5%	1/4W
D712	8-719-073-01	DIODE MA111-TX				R719	1-216-089-91	RES-CHIP	47K	5%	1/10W
D713	8-719-073-01	DIODE MA111-TX				R720	1-216-073-00	RES-CHIP	10K	5%	1/10W
D714	8-719-073-01	DIODE MA111-TX				R721	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
D715	8-719-158-15	DIODE UDZ-TE-17-5.6B				R722	1-216-073-00	RES-CHIP	10K	5%	1/10W
D716	8-719-158-15	DIODE UDZ-TE-17-5.6B				R723	1-216-089-91	RES-CHIP	47K	5%	1/10W
D717	8-719-158-15	DIODE UDZ-TE-17-5.6B				R724	1-216-073-00	RES-CHIP	10K	5%	1/10W
D718	8-719-158-15	DIODE UDZ-TE-17-5.6B				R725	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
D719	8-719-073-01	DIODE MA111-TX				R726	1-216-073-00	RES-CHIP	10K	5%	1/10W
D720	8-719-073-01	DIODE MA111-TX				R727	1-216-627-11	METAL CHIP	100	0.50%	1/10W
D721	8-719-158-15	DIODE UDZ-TE-17-5.6B				R728	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
D722	8-719-158-15	DIODE UDZ-TE-17-5.6B				R729	1-216-025-91	RES-CHIP	100	5%	1/10W
D723	8-719-158-15	DIODE UDZ-TE-17-5.6B				R730	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
D724	8-719-158-15	DIODE UDZ-TE-17-5.6B				<CRYSTAL>					
D725	8-719-158-15	DIODE UDZ-TE-17-5.6B				X1	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			

<IC>											
IC701	8-759-439-67	IC TC7W126FU(TE12R)									
IC702	8-759-439-67	IC TC7W126FU(TE12R)									
IC703	8-759-467-84	IC MC68HC05P6SC442119B									
IC704	8-759-947-34	IC LM35DZ									
IC705	8-759-510-71	IC UPC358G2-T1									

APS-132 M

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	* 1-468-447-11	SWITCHING REGULATOR (APS-132 M BOARD) *****			<TRANSISTOR>		
		HEAT SINK A ASSY		Q105	8-729-047-46	TRANSISTOR FS7KM-16A	
	2-434-993-21	SCREW (3X6), RS TIGHT SPRING WASHER		Q152	8-729-039-41	TRANSISTOR FS10KM-10	
		<DIODE>		Q153	8-729-039-41	TRANSISTOR FS10KM-10	
D101	△ 8-719-073-32	DIODE D25XB60				HEAT SINK E ASSY	
D102	8-719-073-56	TRIAC BT139X-600			2-434-993-21	SCREW (3X6), RS TIGHT SPRINGWASHER	
D104	8-719-073-58	DIODE 20JL2C41A				<DIODE>	
D105	8-719-073-58	DIODE 20JL2C41A		D400	8-719-073-58	DIODE 20JL2C41A	
		<TRANSISTOR>		D401	8-719-073-58	DIODE 20JL2C41A	
Q100	8-729-035-65	TRANSISTOR 2SK2370(2)		D604	8-719-077-10	DIODE 20FL2C41A	
Q101	8-729-035-65	TRANSISTOR 2SK2370(2)				<CAPACITOR>	
Q102	8-729-035-65	TRANSISTOR 2SK2370(2)		C100	△ 1-115-380-91	CERAMIC 100pF 10% 125V	
		<THERMISTOR>		C101	△ 1-115-380-91	CERAMIC 100pF 10% 125V	
THP100	1-809-789-61	THERMISTOR, POSITIVE		C102	△ 1-113-920-91	CERAMIC 2200pF 20% 250V	
THP101	1-809-789-51	THERMISTOR, POSITIVE		C103	△ 1-113-920-91	CERAMIC 2200pF 20% 250V	
		HEAT SINK B ASSY		C104	△ 1-131-955-51	FILM 1.5μF 10% 275V	
	2-434-993-21	SCREW (3X6), RS TIGHT SPRINGWASHER		C105	△ 1-125-933-51	FILM 1μF 10% 275V	
		<TRANSISTOR>		C107	△ 1-125-933-51	FILM 1μF 10% 275V	
Q502	8-729-035-65	TRANSISTOR 2SK2370(2)		C108	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
Q503	8-729-035-65	TRANSISTOR 2SK2370(2)		C109	1-127-822-51	FILM 1μF 10% 420V	
Q702	8-729-035-65	TRANSISTOR 2SK2370(2)		C110	1-127-822-51	FILM 1μF 10% 420V	
Q703	8-729-035-65	TRANSISTOR 2SK2370(2)		C111	1-127-822-51	FILM 1μF 10% 420V	
		HEAT SINK C ASSY		C112	1-165-127-11	CERAMIC 470pF 10% 500V	
	2-434-993-21	SCREW (3X6), RS TIGHT SPRINGWASHER		C113	1-165-127-11	CERAMIC 470pF 10% 500V	
	2-625-794-01	RUBBER (TO-3P), INSULATING		C114	1-117-716-51	FILM 2.2μF 10% 420V	
		<DIODE>		C115	1-131-942-11	ELECT 270μF 30% 450V	
D200	8-719-062-31	DIODE 20DL2C41A		C116	1-131-942-11	ELECT 270μF 30% 450V	
D250	8-719-061-49	DIODE FCH20A10		C117	1-113-920-11	CERAMIC 2200pF 20% 250V	
D251	8-719-075-55	DIODE FCH30A06		C118	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V	
D252	8-719-074-61	DIODE FCH30A04		C119	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V	
		<IC>		C120	1-115-340-11	CERAMIC CHIP 0.22μF 10% 25V	
IC251	8-759-098-24	IC PQ30RV11		C121	1-163-263-91	CERAMIC CHIP 330pF 5% 50V	
IC253	8-759-098-24	IC PQ30RV11		C122	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V	
IC254	8-759-284-06	IC PQ30RV31		C123	1-164-645-11	CERAMIC 1000pF 10% 500V	
		<TRANSISTOR>		C124	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V	
Q204	8-729-047-67	TRANSISTOR 2SK3142-01		C125	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
Q207	8-729-047-67	TRANSISTOR 2SK3142-01		C150	1-136-165-00	FILM 0.1μF 5% 50V	
		HEAT SINK D ASSY		C151	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V	
	2-434-993-21	SCREW (3X6), RS TIGHT SPRINGWASHER		C152	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V	
				C153	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V	
				C154	1-107-909-11	ELECT 47μF 20% 50V	
				C155	1-115-340-11	CERAMIC CHIP 0.22μF 10% 25V	
				C156	1-117-351-91	ELECT 82μF 20% 35V	
				C157	1-117-350-91	ELECT 56μF 20% 35V	
				C158	1-163-133-00	CERAMIC CHIP 470pF 5% 50V	
				C159	1-163-133-00	CERAMIC CHIP 470pF 5% 50V	
				C160	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V	
				C161	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V	
				C162	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V	
				C163	1-163-263-91	CERAMIC CHIP 330pF 5% 50V	
				C164	1-163-017-00	CERAMIC CHIP 4700pF 10% 50V	
				C165	1-117-350-91	ELECT 56μF 20% 35V	
				C166	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V	
				C167	1-127-761-11	FILM 0.0082μF 5% 1.25KV	
				C169	1-107-903-11	ELECT 2.2μF 20% 50V	
				C170	△ 1-113-924-91	CERAMIC 4700pF 20% 250V	
				C171	△ 1-113-924-91	CERAMIC 4700pF 20% 250V	
				C200	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V	
				C201	1-117-279-51	ELECT 3900μF 20% 10V	
				C202	1-117-350-91	ELECT 56μF 20% 35V	
				C204	1-117-279-51	ELECT 3900μF 20% 10V	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C205	1-117-325-91	ELECT	330μF 20% 25V	C500	1-127-822-51	FILM	1μF 10% 420V
C206	1-117-301-51	ELECT	820μF 20% 16V	C501	1-127-835-11	ELECT	22μF 20% 450V
C207	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C502	1-136-165-00	FILM	0.1μF 5% 50V
C208	1-107-904-11	ELECT	3.3μF 20% 50V	C503	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C209	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C504	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C210	1-117-247-91	ELECT	820μF 20% 6.3V	C505	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C211	1-107-904-11	ELECT	3.3μF 20% 50V	C506	1-107-909-11	ELECT	47μF 20% 50V
C212	1-117-247-91	ELECT	820μF 20% 6.3V	C507	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C214	1-117-247-91	ELECT	820μF 20% 6.3V	C508	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C215	1-117-301-51	ELECT	820μF 20% 16V	C509	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C250	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C510	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C252	1-117-276-51	ELECT	1500μF 20% 10V	C511	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C253	1-117-329-51	ELECT	1500μF 20% 25V	C512	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C254	1-117-329-51	ELECT	1500μF 20% 25V	C513	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C255	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C514	1-163-263-91	CERAMIC CHIP	330pF 5% 50V
C256	1-117-344-51	ELECT	1000μF 20% 35V	C515	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C257	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C516	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C258	1-115-185-11	CERAMIC	0.033μF 10% 50V	C517	1-131-924-11	FILM	0.068μF 5% 1.25KV
C259	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C518	1-131-924-11	FILM	0.068μF 5% 1.25KV
C260	1-117-266-91	ELECT	470μF 20% 10V	C519	1-131-924-11	FILM	0.068μF 5% 1.25KV
C261	1-117-325-91	ELECT	330μF 20% 25V	C600	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C262	1-117-328-51	ELECT	820μF 20% 25V	C601	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C263	1-117-355-51	ELECT	560μF 20% 35V	C602	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C264	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C604	1-131-945-11	ELECT	470μF 20% 100V
C268	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C605	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
C300	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C606	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V
C301	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C607	1-131-945-11	ELECT	470μF 20% 100V
C302	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C608	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C303	1-163-133-00	CERAMIC CHIP	470pF 5% 50V	C609	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C304	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V	C610	1-107-906-11	ELECT	10μF 20% 50V
C305	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V	C611	1-117-272-11	ELECT	180μF 20% 10V
C306	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V	C612	1-107-906-11	ELECT	10μF 20% 50V
C307	1-107-909-11	ELECT	47μF 20% 50V	C613	1-107-906-11	ELECT	10μF 20% 50V
C308	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C614	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C309	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C615	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C310	1-107-909-11	ELECT	47μF 20% 50V	C616	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C311	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C617	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C312	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V	C618	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C313	1-163-143-00	CERAMIC	1200pF 5% 50V	C619	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C314	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C620	1-131-945-11	ELECT	470μF 20% 100V
C315	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C621	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C316	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C623	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C317	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	C624	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C400	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C700	1-127-822-51	FILM	1μF 10% 420V
C401	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C701	1-127-835-11	ELECT	22μF 20% 450V
C402	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C702	1-136-165-00	FILM	0.1μF 5% 50V
C404	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C703	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C405	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V	C704	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C406	1-131-944-11	ELECT	470μF 20% 200V	C705	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C407	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C706	1-107-909-11	ELECT	47μF 20% 50V
C408	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C707	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C409	1-117-272-11	ELECT	180μF 20% 10V	C708	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C410	1-107-906-11	ELECT	10μF 20% 50V	C709	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C411	1-107-906-11	ELECT	10μF 20% 50V	C710	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C412	1-107-906-11	ELECT	10μF 20% 50V	C711	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C413	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C712	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C414	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C713	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C415	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C714	1-163-263-91	CERAMIC CHIP	330pF 5% 50V
C416	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C715	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C417	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C716	1-125-916-11	FILM	0.018μF 5% 1.25KV
C418	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C717	1-125-916-11	FILM	0.018μF 5% 1.25KV
C419	1-131-943-11	ELECT	1200μF 30% 200V	C718	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C420	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V				
C422	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V				
C423	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V				

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<CONNECTOR>				D600	8-719-071-63	DIODE HZU6.2BTRF	
CN1	* 1-691-960-11	PIN, CONNECTOR 3P		D601	8-719-988-61	DIODE 1SS355TE-17	
CN2	* 1-580-843-11	PIN, CONNECTOR (POWER)		D602	8-719-988-61	DIODE 1SS355TE-17	
CN4	* 1-691-757-11	PIN, CONNECTOR 8P		D603	8-719-988-61	DIODE 1SS355TE-17	
CN5	* 1-770-291-11	PIN, CONNECTOR 7P		D605	8-719-071-63	DIODE HZU6.2BTRF	
CN6	* 1-564-507-11	PLUG, CONNECTOR 4P		D606	8-719-988-61	DIODE 1SS355TE-17	
CN7	* 1-564-596-11	PLUG, CONNECTOR 15P		D607	8-719-988-61	DIODE 1SS355TE-17	
CN8	* 1-564-511-11	PLUG, CONNECTOR 8P		D608	8-719-988-61	DIODE 1SS355TE-17	
<DIODE>				D700	8-719-988-61	DIODE 1SS355TE-17	
D100	△ 8-719-055-11	DIODE 05NH46		D701	8-719-988-61	DIODE 1SS355TE-17	
D103	△ 8-719-055-11	DIODE 05NH46		D702	8-719-988-61	DIODE 1SS355TE-17	
D106	8-719-988-61	DIODE 1SS355TE-17		D703	8-719-988-61	DIODE 1SS355TE-17	
D107	8-719-056-84	DIODE UDZ-TE-17-7.5B		D704	8-719-988-61	DIODE 1SS355TE-17	
D108	8-719-071-79	DIODE HZU22B2TRF		<FUSE>			
D109	8-719-988-61	DIODE 1SS355TE-17		F101	△ 1-576-365-11	FUSE (15A/250V)	
D110	8-719-313-16	DIODE AU02A		<IC>			
D111	8-719-313-16	DIODE AU02A		IC101	8-759-464-69	IC FA5317P	
D112	8-719-988-61	DIODE 1SS355TE-17		IC102	8-759-098-24	IC PQ30RV11	
D113	8-719-063-70	DIODE D1NL20U		IC150	8-759-470-07	IC CXA8038AP	
D114	8-719-063-70	DIODE D1NL20U		IC200	8-759-700-65	IC NJM79L05A	
D116	8-719-071-81	DIODE HZU30BTRF		IC201	8-759-648-34	IC TA76431AS	
D150	8-719-988-61	DIODE 1SS355TE-17		IC203	8-759-170-73	IC TA78L12S	
D151	8-719-988-61	DIODE 1SS355TE-17		IC250	8-759-648-34	IC TA76431AS	
D152	8-719-988-61	DIODE 1SS355TE-17		IC252	8-759-648-34	IC TA76431AS	
D153	8-719-063-70	DIODE D1NL20U		IC300	8-759-354-43	IC TK83854D	
D154	8-719-988-61	DIODE 1SS355TE-17		IC301	8-759-510-73	IC BA10393F-E2	
D155	8-719-988-61	DIODE 1SS355TE-17		IC302	8-759-648-34	IC TA76431AS	
D201	8-719-063-70	DIODE D1NL20U		IC400	8-759-510-71	IC BA10358F-E2	
D202	8-719-063-70	DIODE D1NL20U		IC401	8-759-648-34	IC TA76431AS	
D203	8-719-988-61	DIODE 1SS355TE-17		IC402	8-759-058-50	IC XRA10324AF	
D205	8-719-071-94	DIODE HRU0103ATRF		IC403	8-759-510-71	IC BA10358F-E2	
D206	8-719-071-94	DIODE HRU0103ATRF		IC500	8-759-470-07	IC CXA8038AP	
D253	8-719-988-61	DIODE 1SS355TE-17		IC600	8-759-510-71	IC BA10358F-E2	
D254	8-719-988-61	DIODE 1SS355TE-17		IC601	8-759-648-34	IC TA76431AS	
D255	8-719-988-61	DIODE 1SS355TE-17		IC602	8-759-058-50	IC XRA10324AF	
D256	8-719-988-61	DIODE 1SS355TE-17		IC603	8-759-510-71	IC BA10358F-E2	
D257	8-719-988-61	DIODE 1SS355TE-17		IC700	8-759-470-07	IC CXA8038AP	
D258	8-719-988-61	DIODE 1SS355TE-17		<COIL>			
D259	8-719-988-61	DIODE 1SS355TE-17		L100	1-416-489-11	COIL,CHOKE	143μH
D260	8-719-988-61	DIODE 1SS355TE-17		L101	1-419-372-11	COIL,CHOKE	
D261	8-719-988-61	DIODE 1SS355TE-17		L201	1-406-703-21	COIL,CHOKE	3.3μH
D262	8-719-988-61	DIODE 1SS355TE-17		L202	1-406-703-21	COIL,CHOKE	3.3μH
D263	8-719-988-61	DIODE 1SS355TE-17		L203	1-406-703-21	COIL,CHOKE	3.3μH
D300	8-719-056-84	DIODE UDZ-TE-17-7.5B		L250	1-419-394-21	COIL,CHOKE	2.2μH
D301	8-719-071-94	DIODE HRU0103ATRF		L251	1-419-394-21	COIL,CHOKE	2.2μH
D302	8-719-071-94	DIODE HRU0103ATRF		L252	1-416-965-21	COIL,CHOKE	1μH
D303	8-719-056-84	DIODE UDZ-TE-17-7.5B		L253	1-406-703-21	COIL,CHOKE	3.3μH
D304	8-719-071-94	DIODE HRU0103ATRF		L254	1-406-703-21	COIL,CHOKE	3.3μH
D305	8-719-988-61	DIODE 1SS355TE-17		L400	1-469-371-11	COIL, CHOKE	4.2μF
D306	8-719-988-61	DIODE 1SS355TE-17		L401	1-416-616-11	COIL,CHOKE	2.2μH
D307	8-719-988-61	DIODE 1SS355TE-17		L501	1-419-371-11	COIL,CHOKE	484μH
D402	8-719-071-63	DIODE HZU6.2BTRF		L600	1-416-616-11	COIL,CHOKE	2.2μH
D403	8-719-988-61	DIODE 1SS355TE-17		<FILTER>			
D404	8-719-988-61	DIODE 1SS355TE-17		LF100	△ 1-423-804-11	TRANSFORMER, LINE FILTER	
D405	8-719-988-61	DIODE 1SS355TE-17		LF101	△ 1-433-843-11	TRANSFORMER, LINE FILTER	
D406	8-719-071-63	DIODE HZU6.2BTRF		LF102	△ 1-433-843-11	TRANSFORMER, LINE FILTER	
D407	8-719-988-61	DIODE 1SS355TE-17					
D408	8-719-988-61	DIODE 1SS355TE-17					
D409	8-719-988-61	DIODE 1SS355TE-17					
D500	8-719-988-61	DIODE 1SS355TE-17					
D501	8-719-988-61	DIODE 1SS355TE-17					
D502	8-719-988-61	DIODE 1SS355TE-17					
D503	8-719-988-61	DIODE 1SS355TE-17					
D504	8-719-988-61	DIODE 1SS355TE-17					

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<PHOTO COUPLER>				R111	1-215-857-11	METAL OXIDE 10	5% 1W F
PH100	8-719-062-33	PHOTO TRIAC COUPLER S21MT2F		R112	1-216-073-00	RES,CHIP 10K	5% 1/10W
PH101	8-749-010-64	PHOTO COUPLER PC123F2		R113	1-216-073-00	RES,CHIP 10K	5% 1/10W
PH102	8-749-010-64	PHOTO COUPLER PC123F2		R114	1-216-073-00	RES,CHIP 10K	5% 1/10W
PH103	8-749-010-64	PHOTO COUPLER PC123F2		R115	1-215-882-51	METAL OXIDE 22	5% 2W F
PH104	8-749-010-64	PHOTO COUPLER PC123F2		R116	1-216-081-00	RES,CHIP 22K	5% 1/10W
PH105	8-749-010-64	PHOTO COUPLER PC123F2		R117	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
PH500	8-749-010-64	PHOTO COUPLER PC123F2		R118	1-216-073-00	RES,CHIP 10K	5% 1/10W
PH501	8-749-010-64	PHOTO COUPLER PC123F2		R119	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
PH502	8-749-010-64	PHOTO COUPLER PC123F2		R120	1-249-413-11	CARBON 470	5% 1/4W
PH700	8-749-010-64	PHOTO COUPLER PC123F2		R121	1-216-070-00	RES,CHIP 7.5K	5% 1/10W
PH701	8-749-010-64	PHOTO COUPLER PC123F2		R122	1-216-308-00	RES,CHIP 4.7	5% 1/10W
PH702	8-749-010-64	PHOTO COUPLER PC123F2		R124	1-215-903-11	METAL OXIDE 68K	5% 2W F
<TRANSISTOR>				R125	1-216-017-91	RES,CHIP 47	5% 1/10W
Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R126	1-215-903-11	METAL OXIDE 68K	5% 2W F
Q104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R127	1-215-904-11	METAL OXIDE 100K	5% 2W F
Q106	8-729-035-71	TRANSISTOR 2SJ334		R128	1-216-037-00	RES,CHIP 330	5% 1/10W
Q150	8-729-141-48	TRANSISTOR 2SB624-BV345		R129	1-216-068-00	RES,CHIP 6.2K	5% 1/10W
Q151	8-729-141-48	TRANSISTOR 2SB624-BV345		R130	1-216-029-00	RES,CHIP 150	5% 1/10W
Q200	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R131	1-216-047-00	RES,CHIP 820	5% 1/10W
Q201	8-729-900-53	TRANSISTOR DTC114EK		R132	1-216-345-11	METAL OXIDE 0.47	5% 1W F
Q202	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R133	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R134	1-216-061-00	RES,CHIP 3.3K	5% 1/10W
Q205	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R135	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q206	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R136	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q250	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R137	1-216-085-00	RES,CHIP 33K	5% 1/10W
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R150	1-247-807-31	CARBON 100	5% 1/4W
Q300	8-729-040-89	TRANSISTOR 2SK1590-T1B		R151	1-249-401-11	CARBON 47	5% 1/4W
Q301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R152	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q302	8-729-040-88	TRANSISTOR 2SB1240TV2QR		R153	1-216-025-00	RES,CHIP 100	5% 1/10W
Q303	8-729-040-23	TRANSISTOR 2SD1862TV2QR		R154	1-216-029-00	RES,CHIP 150	5% 1/10W
Q304	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R155	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q305	8-729-040-89	TRANSISTOR 2SK1590-T1B		R156	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q400	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R157	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q401	8-729-040-89	TRANSISTOR 2SK1590-T1B		R158	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R159	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q403	8-729-040-89	TRANSISTOR 2SK1590-T1B		R160	1-216-308-00	RES,CHIP 4.7	5% 1/10W
Q404	8-729-040-89	TRANSISTOR 2SK1590-T1B		R161	1-216-308-00	RES,CHIP 4.7	5% 1/10W
Q405	8-729-040-89	TRANSISTOR 2SK1590-T1B		R162	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q406	8-729-033-07	TRANSISTOR 2SK2425		R163	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q500	8-729-141-48	TRANSISTOR 2SB624-BV345		R164	1-249-429-11	CARBON 10K	5% 1/4W
Q501	8-729-141-48	TRANSISTOR 2SB624-BV345		R165	1-216-077-91	RES,CHIP 15K	5% 1/10W
Q600	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R166	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q601	8-729-040-89	TRANSISTOR 2SK1590-T1B		R167	1-216-341-11	METAL OXIDE 0.22	5% 1W F
Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R190	1-247-791-91	CARBON 22	5% 1/4W
Q603	8-729-040-89	TRANSISTOR 2SK1590-T1B		R191	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q604	8-729-040-89	TRANSISTOR 2SK1590-T1B		R192	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q605	8-729-040-89	TRANSISTOR 2SK1590-T1B		R201	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q606	8-729-050-53	TRANSISTOR 2SK3212-01		R202	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q700	8-729-141-48	TRANSISTOR 2SB624-BV345		R203	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q701	8-729-141-48	TRANSISTOR 2SB624-BV345		R204	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
<RESISTOR>				R205	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R100	△ 1-260-131-81	CARBON 470K	5% 1/2W	R206	1-216-049-11	RES,CHIP 1K	5% 1/10W
R101	1-240-313-11	CEMENT 4.7	5% 5W	R207	1-208-798-11	RES,CHIP 4.7K	0.5% 1/10W
R102	1-249-397-11	CARBON 22	5% 1/4W	R208	1-208-782-11	RES,CHIP 1K	0.5% 1/10W
R103	1-240-313-11	CEMENT 4.7	5% 5W	R209	1-208-806-11	RES,CHIP 10K	0.5% 1/10W
R104	1-240-910-11	CEMENT 4.7	5% 5W	R210	1-216-049-11	RES,CHIP 1K	5% 1/10W
R105	1-249-407-91	CARBON 150	5% 1/4W	R211	1-216-073-00	RES,CHIP 10K	5% 1/10W
R106	1-219-393-11	METAL PLATE 0.05	10% 5W F	R212	1-216-049-11	RES,CHIP 1K	5% 1/10W
R107	1-219-393-11	METAL PLATE 0.05	10% 5W F	R213	1-216-073-00	RES,CHIP 10K	5% 1/10W
R109	1-215-857-11	METAL OXIDE 10	5% 1W F	R214	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R110	1-215-857-11	METAL OXIDE 10	5% 1W F	R215	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R216	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R218	1-208-790-11	RES,CHIP 2.2K	0.5% 1/10W
				R219	1-208-782-11	RES,CHIP 1K	0.5% 1/10W

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Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R220	1-216-049-11	RES,CHIP	1K	5%	1/10W	R322	1-216-049-11	RES,CHIP	1K	5%	1/10W
R221	1-216-073-00	RES,CHIP	10K	5%	1/10W	R323	1-216-073-00	RES,CHIP	10K	5%	1/10W
R222	1-216-049-11	RES,CHIP	1K	5%	1/10W	R324	1-249-393-11	CARBON	10	5%	1/4W
R223	1-216-073-00	RES,CHIP	10K	5%	1/10W	R325	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R224	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R326	1-216-101-00	RES,CHIP	150K	5%	1/10W
R225	1-216-073-00	RES,CHIP	10K	5%	1/10W	R327	1-216-081-00	RES,CHIP	22K	5%	1/10W
R250	1-216-073-00	RES,CHIP	10K	5%	1/10W	R328	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R251	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R329	1-260-128-11	CARBON	270K	5%	1/2W
R252	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	R339	1-260-128-11	CARBON	270K	5%	1/2W
R253	1-216-049-11	RES,CHIP	1K	5%	1/10W	R340	1-216-049-11	RES,CHIP	1K	5%	1/10W
R254	1-216-079-00	RES,CHIP	18K	5%	1/10W	R341	1-216-042-00	RES,CHIP	510	5%	1/10W
R255	1-216-079-00	RES,CHIP	18K	5%	1/10W	R342	1-216-073-00	RES,CHIP	10K	5%	1/10W
R256	1-216-073-00	RES,CHIP	10K	5%	1/10W	R343	1-216-077-91	RES,CHIP	15K	5%	1/10W
R257	1-216-049-11	RES,CHIP	1K	5%	1/10W	R344	1-214-929-00	METAL	470K	1%	1/2W
R258	1-216-073-00	RES,CHIP	10K	5%	1/10W	R345	1-214-929-00	METAL	470K	1%	1/2W
R259	1-216-113-00	RES,CHIP	470K	5%	1/10W	R346	1-208-799-11	RES,CHIP	5.1K	0.5%	1/10W
R260	1-216-073-00	RES,CHIP	10K	5%	1/10W	R347	1-216-037-00	RES,CHIP	330	5%	1/10W
R261	1-216-049-11	RES,CHIP	1K	5%	1/10W	R348	1-216-073-00	RES,CHIP	10K	5%	1/10W
R262	1-208-812-11	RES,CHIP	18K	0.5%	1/10W	R349	1-247-791-91	CARBON	22	5%	1/4W
R263	1-208-793-11	RES,CHIP	3K	0.5%	1/10W	R351	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R264	1-208-798-11	RES,CHIP	4.7K	0.5%	1/10W	R352	1-216-113-00	RES,CHIP	470K	5%	1/10W
R265	1-208-765-11	RES,CHIP	200	0.5%	1/10W	R400	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R266	1-208-782-11	RES,CHIP	1K	0.5%	1/10W	R401	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R267	1-249-417-11	CARBON	1K	5%	1/4W	R402	1-216-049-11	RES,CHIP	1K	5%	1/10W
R268	1-208-798-11	RES,CHIP	4.7K	0.5%	1/10W	R403	1-216-081-00	RES,CHIP	22K	5%	1/10W
R269	1-208-769-11	RES,CHIP	300	0.5%	1/10W	R404	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R270	1-208-797-11	RES,CHIP	4.3K	0.5%	1/10W	R405	1-216-081-00	RES,CHIP	22K	5%	1/10W
R271	1-216-073-00	RES,CHIP	10K	5%	1/10W	R406	1-216-070-00	RES,CHIP	7.5K	5%	1/10W
R272	1-216-049-11	RES,CHIP	1K	5%	1/10W	R407	1-216-073-00	RES,CHIP	10K	5%	1/10W
R273	1-208-798-11	RES,CHIP	4.7K	0.5%	1/10W	R408	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R274	1-208-764-11	RES,CHIP	180	0.5%	1/10W	R409	1-216-049-11	RES,CHIP	1K	5%	1/10W
R275	1-208-770-11	RES,CHIP	330	0.5%	1/10W	R410	1-216-049-11	RES,CHIP	1K	5%	1/10W
R276	1-208-806-11	RES,CHIP	10K	0.5%	1/10W	R411	1-216-081-00	RES,CHIP	22K	5%	1/10W
R277	1-208-783-11	RES,CHIP	1.1K	0.5%	1/10W	R412	1-214-914-11	METAL	110K	1%	1/2W
R278	1-208-788-11	RES,CHIP	1.8K	0.5%	1/10W	R413	1-214-914-11	METAL	110K	1%	1/2W
R279	1-208-806-11	RES,CHIP	10K	0.5%	1/10W	R414	1-208-795-11	RES,CHIP	3.6K	0.5%	1/10W
R280	1-208-782-11	RES,CHIP	1K	0.5%	1/10W	R415	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R281	1-208-788-11	RES,CHIP	1.8K	0.5%	1/10W	R416	1-208-782-11	RES,CHIP	1K	0.5%	1/10W
R282	1-208-806-11	RES,CHIP	10K	0.5%	1/10W	R417	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R283	1-208-767-11	RES,CHIP	240	0.5%	1/10W	R418	1-208-782-11	RES,CHIP	1K	0.5%	1/10W
R284	1-208-768-11	RES,CHIP	270	0.5%	1/10W	R419	1-208-782-11	RES,CHIP	1K	0.5%	1/10W
R285	1-208-814-91	RES,CHIP	22K	0.5%	1/10W	R420	1-208-806-11	RES,CHIP	10K	0.5%	1/10W
R286	1-208-765-11	RES,CHIP	200	0.5%	1/10W	R421	1-217-625-00	METAL PLATE	0.05	10%	2W F
R287	1-208-792-11	RES,CHIP	2.7K	0.5%	1/10W	R422	1-208-807-11	RES,CHIP	11K	0.5%	1/10W
R288	1-216-073-00	RES,CHIP	10K	5%	1/10W	R423	1-216-105-91	RES,CHIP	220K	5%	1/10W
R300	1-249-413-11	CARBON	470	5%	1/4W	R424	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R301	1-249-413-11	CARBON	470	5%	1/4W	R425	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R302	1-260-130-91	CARBON	390K	5%	1/2W	R426	1-216-081-00	RES,CHIP	22K	5%	1/10W
R304	1-260-130-91	CARBON	390K	5%	1/2W	R427	1-216-089-91	RES,CHIP	47K	5%	1/10W
R305	1-216-109-00	RES,CHIP	330K	5%	1/10W	R428	1-216-049-11	RES,CHIP	1K	5%	1/10W
R306	1-260-130-91	CARBON	390K	5%	1/2W	R429	1-216-081-00	RES,CHIP	22K	5%	1/10W
R307	1-260-130-91	CARBON	390K	5%	1/2W	R430	1-216-073-00	RES,CHIP	10K	5%	1/10W
R309	1-216-097-91	RES,CHIP	100K	5%	1/10W	R431	1-216-081-00	RES,CHIP	22K	5%	1/10W
R310	1-216-081-00	RES,CHIP	22K	5%	1/10W	R433	1-208-830-11	RES,CHIP	100K	0.5%	1/10W
R311	1-260-130-91	CARBON	390K	5%	1/2W	R434	1-216-085-00	RES,CHIP	33K	5%	1/10W
R312	1-260-130-91	CARBON	390K	5%	1/2W	R436	1-216-073-00	RES,CHIP	10K	5%	1/10W
R313	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R437	1-216-073-00	RES,CHIP	10K	5%	1/10W
R314	1-216-052-00	RES,CHIP	1.3K	5%	1/10W	R438	1-216-049-11	RES,CHIP	1K	5%	1/10W
R315	1-216-073-00	RES,CHIP	10K	5%	1/10W	R439	1-216-073-00	RES,CHIP	10K	5%	1/10W
R316	1-216-062-00	RES,CHIP	3.6K	5%	1/10W	R441	1-214-924-00	METAL	300K	1%	1/2W
R317	1-216-121-91	RES,CHIP	1M	5%	1/10W	R442	1-214-900-00	METAL	30K	1%	1/2W
R318	1-216-081-00	RES,CHIP	22K	5%	1/10W	R443	1-208-783-11	RES,CHIP	1.1K	0.5%	1/10W
R319	1-216-105-91	RES,CHIP	220K	5%	1/10W	R444	1-208-798-11	RES,CHIP	4.7K	0.5%	1/10W
R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R445	1-216-073-00	RES,CHIP	10K	5%	1/10W
R321	1-249-413-11	CARBON	470	5%	1/4W	R446	1-216-049-11	RES,CHIP	1K	5%	1/10W

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R447	1-208-805-11	RES,CHIP	9.1K	0.5%	1/10W	R627	1-216-089-91	RES,CHIP	47K		1/10W
R448	1-216-655-11	METAL	1.5K	0.5%	1/10W	R628	1-216-049-11	RES,CHIP	1K	5%	1/10W
R449	1-216-073-00	RES,CHIP	10K	5%	1/10W	R629	1-216-081-00	RES,CHIP	22K	5%	1/10W
R450	1-216-049-11	RES,CHIP	1K	5%	1/10W	R630	1-216-073-00	RES,CHIP	10K	5%	1/10W
R451	1-242-914-11	CEMENT	100	5%	5W	R631	1-216-081-00	RES,CHIP	22K	5%	1/10W
R452	1-208-806-11	RES,CHIP	10K	0.5%	1/10W	R632	1-208-816-11	RES,CHIP	27K	0.5%	1/10W
R453	1-216-655-11	METAL	1.5K	0.5%	1/10W	R633	1-216-085-00	RES,CHIP	33K	5%	1/10W
R454	1-208-830-11	RES,CHIP	100K	0.5%	1/10W	R635	1-216-073-00	RES,CHIP	10K	5%	1/10W
R455	1-208-830-11	RES,CHIP	100K	0.5%	1/10W	R636	1-216-073-00	RES,CHIP	10K	5%	1/10W
R456	1-216-073-00	RES,CHIP	10K	5%	1/10W	R637	1-216-049-11	RES,CHIP	1K	5%	1/10W
R457	1-208-830-11	RES,CHIP	100K	0.5%	1/10W	R638	1-216-073-00	RES,CHIP	10K	5%	1/10W
R459	1-208-802-11	RES,CHIP	6.8K	0.5%	1/10W	R640	1-214-914-11	METAL	110K	1%	1/2W
R460	1-242-916-11	CEMENT	16K	5%	5W	R641	1-215-456-00	METAL	30K	1%	1/4W
R461	1-216-113-00	RES,CHIP	470K	5%	1/10W	R642	1-208-795-11	RES,CHIP	3.6K	0.5%	1/10W
R462	1-242-916-11	CEMENT	16K	5%	5W	R643	1-208-798-11	RES,CHIP	4.7K	0.5%	1/10W
R465	1-216-389-91	METAL OXIDE	1	5%	3W	R644	1-216-073-00	RES,CHIP	10K	5%	1/10W
R466	1-216-389-91	METAL OXIDE	1	5%	3W	R645	1-216-049-11	RES,CHIP	1K	5%	1/10W
R467	1-242-916-11	CEMENT	16K	5%	5W	R646	1-208-792-11	RES,CHIP	2.7K	0.5%	1/10W
R468	1-242-914-11	CEMENT	100	5%	5W	R647	1-216-655-11	METAL	1.5K	0.5%	1/10W
R469	1-242-914-11	CEMENT	100	5%	5W	R648	1-216-073-00	RES,CHIP	10K	5%	1/10W
R500	1-247-807-31	CARBON	100	5%	1/4W	R649	1-216-049-11	RES,CHIP	1K	5%	1/10W
R501	1-249-401-11	CARBON	47	5%	1/4W	R650	1-242-913-11	CEMENT	15	5%	5W
R502	1-216-073-00	RES,CHIP	10K	5%	1/10W	R651	1-208-806-11	RES,CHIP	10K	0.5%	1/10W
R503	1-216-037-00	RES,CHIP	330	5%	1/10W	R652	1-216-655-11	METAL	1.5K	0.5%	1/10W
R504	1-208-766-11	RES,CHIP	220	0.5%	1/10W	R653	1-208-832-11	RES,CHIP	120K	0.5%	1/10W
R505	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R654	1-208-832-11	RES,CHIP	120K	0.5%	1/10W
R506	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R655	1-216-073-00	RES,CHIP	10K	5%	1/10W
R507	1-216-081-00	RES,CHIP	22K	5%	1/10W	R658	1-208-810-11	RES,CHIP	15K	0.5%	1/10W
R508	1-216-308-00	RES,CHIP	4.7	5%	1/10W	R659	1-242-915-11	CEMENT	2.7K	5%	5W
R509	1-216-308-00	RES,CHIP	4.7	5%	1/10W	R660	1-216-113-00	RES,CHIP	470K	5%	1/10W
R510	1-216-073-00	RES,CHIP	10K	5%	1/10W	R661	1-242-915-11	CEMENT	2.7K	5%	5W
R511	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R662	1-242-913-11	CEMENT	15	5%	5W
R512	1-216-049-11	RES,CHIP	1K	5%	1/10W	R700	1-247-807-31	CARBON	100	5%	1/4W
R513	1-216-081-00	RES,CHIP	22K	5%	1/10W	R701	1-249-401-11	CARBON	47	5%	1/4W
R514	1-216-081-00	RES,CHIP	22K	5%	1/10W	R703	1-216-073-00	RES,CHIP	10K	5%	1/10W
R515	1-217-625-00	METAL PLATE	0.05	10%	2W F	R704	1-208-768-11	RES,CHIP	270	0.5%	1/10W
R516	1-216-081-00	RES,CHIP	22K	5%	1/10W	R705	1-208-766-11	RES,CHIP	220	0.5%	1/10W
R517	1-216-073-00	RES,CHIP	10K	5%	1/10W	R706	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R600	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R707	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R601	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R708	1-216-081-00	RES,CHIP	22K	5%	1/10W
R602	1-216-049-11	RES,CHIP	1K	5%	1/10W	R709	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R603	1-216-081-00	RES,CHIP	22K	5%	1/10W	R710	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R604	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R711	1-216-073-00	RES,CHIP	10K	5%	1/10W
R605	1-216-081-00	RES,CHIP	22K	5%	1/10W	R712	1-216-049-11	RES,CHIP	1K	5%	1/10W
R606	1-216-073-00	RES,CHIP	10K	5%	1/10W	R713	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R607	1-216-073-00	RES,CHIP	10K	5%	1/10W	R714	1-216-081-00	RES,CHIP	22K	5%	1/10W
R608	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R715	1-216-081-00	RES,CHIP	22K	5%	1/10W
R609	1-216-049-11	RES,CHIP	1K	5%	1/10W	R716	1-217-625-00	METAL PLATE	0.05	10%	2W F
R610	1-216-049-11	RES,CHIP	1K	5%	1/10W	R717	1-216-689-11	RES,CHIP	39K	5%	1/10W
R611	1-216-081-00	RES,CHIP	22K	5%	1/10W	R718	1-216-073-00	RES,CHIP	10K	5%	1/10W
R612	1-215-459-00	METAL	39K	1%	1/4W	<VARIABLE RESISTOR>					
R613	1-215-457-00	METAL	33K	1%	1/4W						
R614	1-208-795-11	RES,CHIP	3.6K	0.5%	1/10W						
R615	1-216-057-00	RES,CHIP	2.2K	5%	1/10W						
R616	1-208-782-11	RES,CHIP	1K	0.5%	1/10W						
R617	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	RV150	1-241-764-11	RES,ADJ,CERMET	10K		
R618	1-208-782-11	RES,CHIP	1K	0.5%	1/10W	RV201	1-241-762-11	RES,ADJ,CERMET	2.2K		
R619	1-208-782-11	RES,CHIP	1K	0.5%	1/10W	RV250	1-241-762-11	RES,ADJ,CERMET	2.2K		
R620	1-208-806-11	RES,CHIP	10K	0.5%	1/10W	RV300	1-241-762-11	RES,ADJ,CERMET	2.2K		
R621	1-217-625-00	METAL PLATE	0.05	10%	2W F	RV400	1-241-759-11	RES,ADJ,CERMET	220		
R622	1-208-806-11	RES,CHIP	10K	0.5%	1/10W	RV401	1-241-762-11	RES,ADJ,CERMET	2.2K		
R623	1-216-105-91	RES,CHIP	220K	5%	1/10W	RV402	1-241-760-11	RES,ADJ,CERMET	470		
R624	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	RV500	1-241-764-11	RES,ADJ,CERMET	10K		
R625	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	RV600	1-241-760-11	RES,ADJ,CERMET	470		
R626	1-216-081-00	RES,CHIP	22K	5%	1/10W	RV601	1-241-762-11	RES,ADJ,CERMET	2.2K		
						RV602	1-241-760-11	RES,ADJ,CERMET	470		
						RV700	1-241-764-11	RES,ADJ,CERMET	10K		

APS-132 M APS-136 M

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<TRANSFORMER>				<IC>			
T101	1-435-218-11	TRANSFORMER, CONVERTOR		IC251	8-759-098-24	IC PQ30RV11	
T102	1-435-219-11	TRANSFORMER, CONVERTOR		IC253	8-759-098-24	IC PQ30RV11	
T105	1-426-931-21	TRANSFORMER, DRIVE		IC254	8-759-284-06	IC PQ30RV31	
T501	1-435-216-11	TRANSFORMER, CONVERTOR		<TRANSISTOR>			
T502	1-426-931-21	TRANSFORMER, DRIVE					
T701	1-435-217-11	TRANSFORMER, CONVERTOR		Q204	8-729-047-67	TRANSISTOR 2SK3142-01	
T702	1-426-931-21	TRANSFORMER, DRIVE		Q207	8-729-047-67	TRANSISTOR 2SK3142-01	
<VARISTOR>				HEAT SINK D ASSY			
VDR100△	1-809-909-22	VARISTOR NV270D03-TB2		2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER			
VDR101△	1-801-625-21	VARISTOR 470NR10D		<TRANSISTOR>			
VDR102△	1-801-625-21	VARISTOR 470NR10D					
VDR103△	1-809-909-22	VARISTOR NV270D03-TB2		Q105	8-729-047-46	TRANSISTOR FS7KM-16A	
*****				Q152	8-729-039-41	TRANSISTOR FS10KM-10	
				Q153	8-729-039-41	TRANSISTOR FS10KM-10	
* 1-468-522-11	SWITCHING REGULATOR (APS-136 M BOARD)		*****	HEAT SINK E ASSY			
				2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER			
HEAT SINK A ASSY				<DIODE>			
2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER				D400	8-719-073-58	DIODE 20JL2C41A	
<DIODE>				D604	8-719-077-10	DIODE 20FL2C41A	
D101	△ 8-719-073-32	DIODE D25XB60		<CAPACITOR>			
D102	8-719-073-56	TRIAC BT139X-600		C100	△ 1-127-775-91	CERAMIC	100pF 10% 250V
D104	8-719-073-58	DIODE 20JL2C41A		C101	△ 1-113-920-91	CERAMIC	2200pF 20% 250V
<TRANSISTOR>				C102	△ 1-127-775-91	CERAMIC	100pF 10% 250V
Q100	8-729-035-65	TRANSISTOR 2SK2370(2)		C103	△ 1-113-920-91	CERAMIC	2200pF 20% 250V
Q101	8-729-035-65	TRANSISTOR 2SK2370(2)		C104	△ 1-125-933-51	FILM	1μF 10% 275V
Q102	8-729-035-65	TRANSISTOR 2SK2370(2)		C107	△ 1-125-933-51	FILM	1μF 10% 275V
<THERMISTOR>				C108	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
THP100	1-809-789-51	THERMISTOR, POSITIVE		C109	1-127-822-51	FILM	1μF 10% 420V
THP101	1-809-789-51	THERMISTOR, POSITIVE		C110	1-127-822-51	FILM	1μF 10% 420V
HEAT SINK B ASSY				C111	1-127-822-51	FILM	1μF 10% 420V
2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER				C112	1-165-127-11	CERAMIC	470pF 10% 500V
<TRANSISTOR>				C113	1-165-127-11	CERAMIC	470pF 10% 500V
Q502	8-729-035-65	TRANSISTOR 2SK2370(2)		C114	1-117-716-51	FILM	2.2μF 10% 420V
Q503	8-729-035-65	TRANSISTOR 2SK2370(2)		C115	1-131-942-11	ELECT	270μF 30% 450V
Q702	8-729-035-65	TRANSISTOR 2SK2370(2)		C116	1-131-942-11	ELECT	270μF 30% 450V
Q703	8-729-035-65	TRANSISTOR 2SK2370(2)		C117	1-113-920-11	CERAMIC	2200pF 20% 250V
HEAT SINK C ASSY				C118	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
2-434-993-21 SCREW (3X6), RS TIGHT SPRING WASHER				C119	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
2-625-794-01 RUBBER (TO-3P), INSULATING				C120	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
<DIODE>				C121	1-163-263-91	CERAMIC CHIP	330pF 5% 50V
D200	8-719-062-31	DIODE 20DL2C41A		C122	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
D250	8-719-061-49	DIODE FCH20A10		C123	1-164-645-11	CERAMIC	1000pF 10% 500V
D251	8-719-060-25	DIODE FCQ30A06		C124	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
D252	8-719-055-40	DIODE FCQ30A04		C125	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C150	1-136-165-00	FILM	0.1μF 5% 50V
				C151	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
				C152	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
				C153	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
				C154	1-107-909-11	ELECT	47μF 20% 50V
				C155	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
				C156	1-117-351-91	ELECT	82μF 20% 35V
				C157	1-117-350-91	ELECT	56μF 20% 35V
				C158	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
				C159	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
				C160	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
C161	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V	C404	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C162	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V	C405	1-164-344-11	CERAMIC CHIP	0.068μF	10%	25V
C163	1-163-263-91	CERAMIC CHIP	330pF	5%	50V	C406	1-135-873-11	ELECT	470μF	20%	250V
C164	1-163-017-00	CERAMIC CHIP	4700pF	10%	50V	C407	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C165	1-117-350-91	ELECT	56μF	20%	35V	C408	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C166	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C409	1-117-272-11	ELECT	180μF	20%	10V
C167	1-127-761-11	FILM	0.0082μF	5%	1.25KV	C410	1-107-906-11	ELECT	10μF	20%	50V
C169	1-107-903-11	ELECT	2.2μF	20%	50V	C411	1-107-906-11	ELECT	10μF	20%	50V
C170	△ 1-113-924-91	CERAMIC	4700pF	20%	250V	C412	1-107-906-11	ELECT	10μF	20%	50V
C171	△ 1-113-924-91	CERAMIC	4700pF	20%	250V	C413	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C200	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C414	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C201	1-117-279-51	ELECT	3900μF	20%	10V	C415	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C202	1-117-350-91	ELECT	56μF	20%	35V	C416	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C204	1-117-279-51	ELECT	3900μF	20%	10V	C417	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C205	1-117-325-91	ELECT	330μF	20%	25V	C418	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C206	1-117-295-91	ELECT	82μF	20%	16V	C419	1-131-943-11	ELECT	1200μF	30%	200V
C207	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C420	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C208	1-107-904-11	ELECT	3.3μF	20%	50V	C422	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C209	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V	C423	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C210	1-117-247-91	ELECT	820μF	20%	6.3V	C424	1-131-943-11	ELECT	1200μF	30%	200V
C211	1-107-904-11	ELECT	3.3μF	20%	50V	C500	1-127-822-51	FILM	1μF	10%	420V
C212	1-117-247-91	ELECT	820μF	20%	6.3V	C501	1-127-835-11	ELECT	22μF	20%	450V
C214	1-117-247-91	ELECT	820μF	20%	6.3V	C502	1-136-165-00	FILM	0.1μF	5%	50V
C215	1-117-295-91	ELECT	82μF	20%	16V	C503	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C250	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C504	1-163-263-91	CERAMIC CHIP	330pF	5%	50V
C252	1-117-276-51	ELECT	1500μF	20%	10V	C505	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C253	1-117-329-51	ELECT	1500μF	20%	25V	C506	1-107-909-11	ELECT	47μF	20%	50V
C254	1-117-329-51	ELECT	1500μF	20%	25V	C507	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C255	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C508	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C256	1-117-344-51	ELECT	1000μF	20%	35V	C509	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C257	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C510	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V
C258	1-115-185-11	CERAMIC	0.033μF	10%	50V	C511	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C260	1-117-266-91	ELECT	470μF	20%	10V	C512	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C261	1-117-325-91	ELECT	330μF	20%	25V	C513	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C262	1-117-328-51	ELECT	820μF	20%	25V	C514	1-163-263-91	CERAMIC CHIP	330pF	5%	50V
C263	1-117-355-51	ELECT	560μF	20%	35V	C515	1-163-017-00	CERAMIC CHIP	4700pF	10%	50V
C264	1-107-906-11	ELECT	10μF	20%	50V	C516	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C268	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C517	1-131-924-11	FILM	0.068μF	5%	1.25KV
C269	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C518	1-131-924-11	FILM	0.068μF	5%	1.25KV
C270	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C519	1-131-924-11	FILM	0.068μF	5%	1.25KV
C271	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C600	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C274	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C601	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C275	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C602	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C300	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C604	1-131-945-11	ELECT	470μF	20%	100V
C301	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C605	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V
C302	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C606	1-164-344-11	CERAMIC CHIP	0.068μF	10%	25V
C303	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	C607	1-131-945-11	ELECT	470μF	20%	100V
C304	1-163-255-11	CERAMIC CHIP	150pF	5%	50V	C608	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C305	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V	C609	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C306	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V	C610	1-107-906-11	ELECT	10μF	20%	50V
C307	1-107-909-11	ELECT	47μF	20%	50V	C611	1-117-272-11	ELECT	180μF	20%	10V
C308	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C612	1-107-906-11	ELECT	10μF	20%	50V
C309	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C613	1-107-906-11	ELECT	10μF	20%	50V
C310	1-107-909-11	ELECT	47μF	20%	50V	C614	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C311	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C615	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C312	1-104-760-11	CERAMIC CHIP	0.047μF	10%	50V	C616	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C313	1-163-143-00	CERAMIC	1200pF	5%	50V	C617	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C314	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C618	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C315	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C619	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C316	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C620	1-131-945-11	ELECT	470μF	20%	100V
C317	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V	C621	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C350	1-163-255-11	CERAMIC CHIP	150pF	5%	50V	C623	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C400	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C624	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C401	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C700	1-127-822-51	FILM	1μF	10%	420V
C402	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C701	1-127-835-11	ELECT	22μF	20%	450V

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C702	1-136-165-00	FILM 0.1μF 5% 50V		D263	8-719-914-43	DIODE DAN202K-T146	
C703	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V		D264	8-719-914-43	DIODE DAN202K-T146	
C704	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V		D265	8-719-914-44	DIODE DAP202K-T146	
C705	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V		D266	8-719-914-44	DIODE DAP202K-T146	
C706	1-107-909-11	ELECT 47μF 20% 50V		D267	8-719-988-61	DIODE 1SS355TE-17	
C707	1-163-133-00	CERAMIC CHIP 470pF 5% 50V		D268	8-719-988-61	DIODE 1SS355TE-17	
C708	1-163-133-00	CERAMIC CHIP 470pF 5% 50V		D269	8-719-988-61	DIODE 1SS355TE-17	
C709	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V		D270	8-719-988-61	DIODE 1SS355TE-17	
C710	1-115-340-11	CERAMIC CHIP 0.22μF 10% 25V		D300	8-719-060-30	DIODE HZU7.5B2TRF	
C711	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V		D301	8-719-071-94	DIODE HRU0103ATRF	
C712	1-163-275-11	CERAMIC CHIP 1000pF 5% 50V		D302	8-719-071-94	DIODE HRU0103ATRF	
C713	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V		D303	8-719-060-30	DIODE HZU7.5B2TRF	
C714	1-163-263-91	CERAMIC CHIP 330pF 5% 50V		D304	8-719-071-94	DIODE HRU0103ATRF	
C715	1-115-340-11	CERAMIC CHIP 0.22μF 10% 25V		D305	8-719-988-61	DIODE 1SS355TE-17	
C716	1-125-916-11	FILM 0.018μF 5% 1.25KV		D306	8-719-988-61	DIODE 1SS355TE-17	
C717	1-125-916-11	FILM 0.018μF 5% 1.25KV		D307	8-719-988-61	DIODE 1SS355TE-17	
C718	1-115-339-11	CERAMIC CHIP 0.1μF 10% 50V		D402	8-719-071-63	DIODE HZU6.2BTRF	
<CONNECTOR>				D403	8-719-988-61	DIODE 1SS355TE-17	
CN1	* 1-691-960-11	PIN, CONNECTOR 3P		D404	8-719-988-61	DIODE 1SS355TE-17	
CN2	* 1-580-843-11	PIN, CONNECTOR (POWER)		D405	8-719-988-61	DIODE 1SS355TE-17	
CN4	* 1-691-757-11	PIN, CONNECTOR 8P		D406	8-719-071-63	DIODE HZU6.2BTRF	
CN5	* 1-770-291-11	PIN, CONNECTOR 7P		D407	8-719-988-61	DIODE 1SS355TE-17	
CN6	* 1-564-507-11	PLUG, CONNECTOR 4P		D408	8-719-988-61	DIODE 1SS355TE-17	
CN7	* 1-564-596-11	PLUG, CONNECTOR 15P		D409	8-719-988-61	DIODE 1SS355TE-17	
CN8	* 1-564-511-11	PLUG, CONNECTOR 8P		D500	8-719-988-61	DIODE 1SS355TE-17	
<DIODE>				D501	8-719-988-61	DIODE 1SS355TE-17	
D100	△ 8-719-055-11	DIODE 05NH46		D504	8-719-988-61	DIODE 1SS355TE-17	
D103	△ 8-719-055-11	DIODE 05NH46		D600	8-719-071-63	DIODE HZU6.2BTRF	
D106	8-719-988-61	DIODE 1SS355TE-17		D601	8-719-988-61	DIODE 1SS355TE-17	
D107	8-719-060-30	DIODE HZU7.5B2TRF		D602	8-719-988-61	DIODE 1SS355TE-17	
D108	8-719-071-79	DIODE HZU22B2TRF		D603	8-719-988-61	DIODE 1SS355TE-17	
D109	8-719-988-61	DIODE 1SS355TE-17		D605	8-719-071-63	DIODE HZU6.2BTRF	
D110	8-719-313-16	DIODE AU02A		D606	8-719-988-61	DIODE 1SS355TE-17	
D111	8-719-313-16	DIODE AU02A		D607	8-719-988-61	DIODE 1SS355TE-17	
D112	8-719-988-61	DIODE 1SS355TE-17		D608	8-719-988-61	DIODE 1SS355TE-17	
D113	8-719-063-70	DIODE D1NL20U		D700	8-719-988-61	DIODE 1SS355TE-17	
D114	8-719-063-70	DIODE D1NL20U		D701	8-719-988-61	DIODE 1SS355TE-17	
D116	8-719-931-52	DIODE HZS30NTD		D704	8-719-988-61	DIODE 1SS355TE-17	
D117	8-719-988-61	DIODE 1SS355TE-17		<FUSE>			
D118	8-719-988-61	DIODE 1SS355TE-17		F101	△ 1-576-365-11	FUSE (15A/250V)	
D119	8-719-988-61	DIODE 1SS355TE-17		<IC>			
D150	8-719-988-61	DIODE 1SS355TE-17		IC101	8-759-464-69	IC FA5317P	
D151	8-719-988-61	DIODE 1SS355TE-17		IC102	8-759-098-24	IC PQ30RV11	
D152	8-719-988-61	DIODE 1SS355TE-17		IC150	8-759-470-07	IC CXA8038AP	
D153	8-719-063-70	DIODE D1NL20U		IC200	8-759-067-14	IC TA79L005P-TPE6	
D154	8-719-988-61	DIODE 1SS355TE-17		IC201	8-759-648-34	IC TA76431AS	
D155	8-719-988-61	DIODE 1SS355TE-17		IC203	8-759-170-73	IC TA78L12S	
D201	8-719-063-70	DIODE D1NL20U		IC250	8-759-648-34	IC TA76431AS	
D202	8-719-063-70	DIODE D1NL20U		IC252	8-759-060-02	IC BA10324AF-E2	
D203	8-719-988-61	DIODE 1SS355TE-17		IC300	8-759-354-43	IC TK83854D	
D205	8-719-071-94	DIODE HRU0103ATRF		IC301	8-759-510-73	IC BA10393F-E2	
D206	8-719-071-94	DIODE HRU0103ATRF		IC302	8-759-648-34	IC TA76431AS	
D253	8-719-988-61	DIODE 1SS355TE-17		IC400	8-759-510-71	IC BA10358F-E2	
D254	8-719-988-61	DIODE 1SS355TE-17		IC401	8-759-648-34	IC TA76431AS	
D255	8-719-988-61	DIODE 1SS355TE-17		IC402	8-759-060-02	IC BA10324AF-E2	
D256	8-719-988-61	DIODE 1SS355TE-17		IC403	8-759-510-71	IC BA10358F-E2	
D257	8-719-988-61	DIODE 1SS355TE-17		IC500	8-759-470-07	IC CXA8038AP	
D258	8-719-988-61	DIODE 1SS355TE-17		IC600	8-759-510-71	IC BA10358F-E2	
D259	8-719-988-61	DIODE 1SS355TE-17		IC601	8-759-648-34	IC TA76431AS	
D260	8-719-988-61	DIODE 1SS355TE-17		IC602	8-759-060-02	IC BA10324AF-E2	
D261	8-719-071-63	DIODE HZU6.2BTRF		IC603	8-759-510-71	IC BA10358F-E2	
				IC700	8-759-470-07	IC CXA8038AP	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	<COIL>			Q406	8-729-033-07	TRANSISTOR 2SK2425	
L100	1-416-489-11	COIL,CHOKE	143μH	Q500	8-729-141-48	TRANSISTOR 2SB624-BV345	
L101	1-419-372-11	COIL,CHOKE		Q501	8-729-141-48	TRANSISTOR 2SB624-BV345	
L201	1-406-703-21	COIL,CHOKE	3.3μH	Q600	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L202	1-406-703-21	COIL,CHOKE	3.3μH	Q601	8-729-040-89	TRANSISTOR 2SK1590-T1B	
L203	1-406-703-21	COIL,CHOKE	3.3μH	Q602	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L250	1-419-394-21	COIL,CHOKE	2.2μH	Q603	8-729-040-89	TRANSISTOR 2SK1590-T1B	
L251	1-419-394-21	COIL,CHOKE	2.2μH	Q604	8-729-040-89	TRANSISTOR 2SK1590-T1B	
L252	1-416-965-21	COIL,CHOKE	1μH	Q605	8-729-040-89	TRANSISTOR 2SK1590-T1B	
L253	1-406-703-21	COIL,CHOKE	3.3μH	Q606	8-729-050-53	TRANSISTOR 2SK3212-01	
L254	1-406-703-21	COIL,CHOKE	3.3μH	Q700	8-729-141-48	TRANSISTOR 2SB624-BV345	
L400	1-469-371-11	COIL, CHOKE	4.2μF	Q701	8-729-141-48	TRANSISTOR 2SB624-BV345	
L401	1-416-616-11	COIL,CHOKE	2.2μH	<RESISTOR>			
L501	1-419-371-11	COIL,CHOKE	484μH	R100	△ 1-260-131-81	CARBON	470K
L600	1-416-616-11	COIL,CHOKE	2.2μH	R101	1-240-313-11	CEMENT	4.7
	<FILTER>			R102	1-249-397-11	CARBON	22
LF100	△ 1-423-804-11	TRANSFORMER, LINE FILTER		R103	1-240-313-11	CEMENT	4.7
LF101	△ 1-435-556-11	TRANSFORMER, LINE FILTER		R104	1-240-910-11	CEMENT	4.7
	<PHOTO COUPLER>			R105	1-249-407-91	CARBON	150
PH100	8-719-062-33	PHOTO TRIAC COUPLER S21MT2F		R106	1-219-393-11	METAL PLATE	0.05
PH101	8-749-010-64	PHOTO COUPLER PC123FY2		R107	1-219-393-11	METAL PLATE	0.05
PH102	8-749-010-64	PHOTO COUPLER PC123FY2		R109	1-249-393-11	CARBON	10
PH103	8-749-010-64	PHOTO COUPLER PC123FY2		R110	1-249-393-11	CARBON	10
PH104	8-749-010-64	PHOTO COUPLER PC123FY2		R111	1-249-393-11	CARBON	10
PH105	8-749-010-64	PHOTO COUPLER PC123FY2		R112	1-249-429-11	RES,CHIP	10K
PH500	8-749-010-64	PHOTO COUPLER PC123FY2		R113	1-249-429-11	RES,CHIP	10K
PH501	8-749-010-64	PHOTO COUPLER PC123FY2		R114	1-249-429-11	RES,CHIP	10K
PH502	8-749-010-64	PHOTO COUPLER PC123FY2		R115	1-215-882-51	METAL OXIDE	22
PH700	8-749-010-64	PHOTO COUPLER PC123FY2		R116	1-216-079-00	RES,CHIP	18K
PH701	8-749-010-64	PHOTO COUPLER PC123FY2		R117	1-216-065-91	RES,CHIP	4.7K
PH702	8-749-010-64	PHOTO COUPLER PC123FY2		R118	1-216-073-00	RES,CHIP	10K
	<TRANSISTOR>			R119	1-216-065-91	RES,CHIP	4.7K
Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R120	1-249-413-11	CARBON	470
Q104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R121	1-216-070-00	RES,CHIP	7.5K
Q106	8-729-052-31	TRANSISTOR 2SJ496T2		R122	1-216-308-00	RES,CHIP	4.7
Q150	8-729-141-48	TRANSISTOR 2SB624-BV345		R124	1-215-903-11	METAL OXIDE	68K
Q151	8-729-141-48	TRANSISTOR 2SB624-BV345		R125	1-216-017-91	RES,CHIP	47
Q200	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R126	1-215-903-11	METAL OXIDE	68K
Q201	8-729-900-53	TRANSISTOR DTC114EKA-T146		R127	1-215-904-11	METAL OXIDE	100K
Q202	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R128	1-216-037-00	RES,CHIP	330
Q203	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R129	1-240-383-21	RES,CHIP	6.2K
Q205	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R130	1-216-029-00	RES,CHIP	150
Q206	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R131	1-216-047-00	RES,CHIP	820
Q250	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R132	1-216-345-11	METAL OXIDE	0.47
Q251	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R133	1-216-089-91	RES,CHIP	47K
Q252	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R134	1-216-061-00	RES,CHIP	3.3K
Q253	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R135	1-216-073-00	RES,CHIP	10K
Q300	8-729-040-89	TRANSISTOR 2SK1590-T1B		R136	1-216-089-91	RES,CHIP	47K
Q301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R137	1-216-085-00	RES,CHIP	33K
Q302	8-729-040-88	TRANSISTOR 2SB1240TV2QR		R139	1-216-308-00	RES,CHIP	4.7
Q303	8-729-040-23	TRANSISTOR 2SD1862TV2QR		R140	1-216-308-00	RES,CHIP	4.7
Q304	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R141	1-216-308-00	RES,CHIP	4.7
Q305	8-729-040-89	TRANSISTOR 2SK1590-T1B		R150	1-247-807-31	CARBON	100
Q400	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R151	1-249-401-11	CARBON	47
Q401	8-729-040-89	TRANSISTOR 2SK1590-T1B		R152	1-216-081-00	RES,CHIP	22K
Q402	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R153	1-216-025-00	RES,CHIP	100
Q403	8-729-040-89	TRANSISTOR 2SK1590-T1B		R154	1-216-029-00	RES,CHIP	150
Q404	8-729-040-89	TRANSISTOR 2SK1590-T1B		R155	1-216-065-91	RES,CHIP	4.7K
Q405	8-729-040-89	TRANSISTOR 2SK1590-T1B		R156	1-216-065-91	RES,CHIP	4.7K
				R157	1-216-065-91	RES,CHIP	4.7K
				R158	1-216-065-91	RES,CHIP	4.7K
				R159	1-216-073-00	RES,CHIP	10K
				R160	1-216-308-00	RES,CHIP	4.7

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Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R161	1-216-308-00	RES,CHIP	4.7	5%	1/10W	R277	1-240-365-21	RES,CHIP	1.1K	1%	1/10W
R162	1-216-081-00	RES,CHIP	22K	5%	1/10W	R278	1-240-365-21	RES,CHIP	1.1K	1%	1/10W
R163	1-216-081-00	RES,CHIP	22K	5%	1/10W	R279	1-240-388-21	RES,CHIP	10K	1%	1/10W
R164	1-249-429-11	CARBON	10K	5%	1/4W	R280	1-240-365-21	RES,CHIP	1.1K	1%	1/10W
R165	1-216-079-00	RES,CHIP	18K	5%	1/10W	R281	1-240-370-21	RES,CHIP	1.8K	1%	1/10W
R166	1-216-073-00	RES,CHIP	10K	5%	1/10W	R282	1-240-388-21	RES,CHIP	10K	1%	1/10W
R167	1-216-341-11	METAL OXIDE	0.22	5%	1W F	R283	1-240-349-21	RES,CHIP	240	1%	1/10W
R190	1-247-791-91	CARBON	22	5%	1/4W	R284	1-240-350-21	RES,CHIP	270	1%	1/10W
R191	1-249-437-11	RES,CHIP	47K	5%	1/4W	R285	1-240-396-21	RES,CHIP	22K	1%	1/10W
R192	1-216-073-00	RES,CHIP	10K	5%	1/10W	R286	1-240-349-21	RES,CHIP	240	1%	1/10W
R201	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R287	1-240-370-21	RES,CHIP	1.8K	1%	1/10W
R202	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R288	1-216-113-00	RES,CHIP	470K	5%	1/10W
R203	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R289	1-240-562-21	RES,CHIP	47K	1%	1/10W
R204	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R290	1-240-566-21	METAL	68K	1%	1/10W
R205	1-240-368-21	RES,CHIP	1.5K	1%	1/10W	R291	1-240-386-21	RES,CHIP	8.2K	1%	1/10W
R206	1-216-049-11	RES,CHIP	1K	5%	1/10W	R292	1-240-372-21	RES,CHIP	2.2K	1%	1/10W
R207	1-240-380-21	RES,CHIP	4.7K	1%	1/10W	R293	1-240-374-21	RES,CHIP	2.7K	1%	1/10W
R208	1-240-365-21	RES,CHIP	1.1K	1%	1/10W	R294	1-240-376-21	RES,CHIP	3.3K	1%	1/10W
R209	1-240-376-21	RES,CHIP	3.3K	1%	1/10W	R295	1-240-386-21	RES,CHIP	8.2K	1%	1/10W
R210	1-216-049-11	RES,CHIP	1K	5%	1/10W	R296	1-240-376-21	RES,CHIP	3.3K	1%	1/10W
R211	1-216-073-00	RES,CHIP	10K	5%	1/10W	R297	1-240-394-21	RES,CHIP	18K	1%	1/10W
R212	1-216-049-11	RES,CHIP	1K	5%	1/10W	R298	1-240-376-21	RES,CHIP	3.3K	1%	1/10W
R213	1-216-073-00	RES,CHIP	10K	5%	1/10W	R299	1-240-372-21	RES,CHIP	2.2K	1%	1/10W
R214	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R300	1-249-413-11	CARBON	470	5%	1/4W
R215	1-216-073-00	RES,CHIP	10K	5%	1/10W	R301	1-249-413-11	CARBON	470	5%	1/4W
R216	1-216-073-00	RES,CHIP	10K	5%	1/10W	R302	1-260-130-91	CARBON	390K	5%	1/2W
R218	1-240-372-21	RES,CHIP	2.2K	1%	1/10W	R304	1-260-130-91	CARBON	390K	5%	1/2W
R219	1-240-364-21	RES,CHIP	1K	1%	1/10W	R305	1-216-109-00	RES,CHIP	330K	5%	1/10W
R220	1-216-049-11	RES,CHIP	1K	5%	1/10W	R306	1-260-130-91	CARBON	390K	5%	1/2W
R221	1-216-073-00	RES,CHIP	10K	5%	1/10W	R307	1-260-130-91	CARBON	390K	5%	1/2W
R222	1-216-049-11	RES,CHIP	1K	5%	1/10W	R309	1-216-097-91	RES,CHIP	100K	5%	1/10W
R223	1-216-073-00	RES,CHIP	10K	5%	1/10W	R310	1-216-081-00	RES,CHIP	22K	5%	1/10W
R224	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R311	1-260-130-91	CARBON	390K	5%	1/2W
R225	1-216-073-00	RES,CHIP	10K	5%	1/10W	R312	1-260-130-91	CARBON	390K	5%	1/2W
R233	1-216-073-00	RES,CHIP	10K	5%	1/10W	R313	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R234	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R314	1-216-052-00	RES,CHIP	1.3K	5%	1/10W
R248	1-216-073-00	RES,CHIP	10K	5%	1/10W	R315	1-216-073-00	RES,CHIP	10K	5%	1/10W
R249	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R316	1-216-062-00	RES,CHIP	3.6K	5%	1/10W
R250	1-216-073-00	RES,CHIP	10K	5%	1/10W	R317	1-216-121-91	RES,CHIP	1M	5%	1/10W
R251	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R318	1-216-081-00	RES,CHIP	22K	5%	1/10W
R252	1-240-386-21	RES,CHIP	8.2K	1%	1/10W	R319	1-216-105-91	RES,CHIP	220K	5%	1/10W
R253	1-216-049-11	RES,CHIP	1K	5%	1/10W	R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R254	1-216-079-00	RES,CHIP	18K	5%	1/10W	R321	1-249-413-11	CARBON	470	5%	1/4W
R255	1-216-079-00	RES,CHIP	18K	5%	1/10W	R322	1-216-049-11	RES,CHIP	1K	5%	1/10W
R256	1-216-073-00	RES,CHIP	10K	5%	1/10W	R323	1-216-073-00	RES,CHIP	10K	5%	1/10W
R257	1-216-049-11	RES,CHIP	1K	5%	1/10W	R324	1-249-393-11	CARBON	10	5%	1/4W F
R258	1-216-073-00	RES,CHIP	10K	5%	1/10W	R325	1-216-081-00	RES,CHIP	22K	5%	1/10W
R259	1-216-049-11	RES,CHIP	1K	5%	1/10W	R326	1-216-101-00	RES,CHIP	150K	5%	1/10W
R260	1-216-073-00	RES,CHIP	10K	5%	1/10W	R327	1-216-081-00	RES,CHIP	22K	5%	1/10W
R261	1-240-394-21	RES,CHIP	18K	1%	1/10W	R328	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R262	1-240-375-21	RES,CHIP	3K	1%	1/10W	R329	1-260-128-11	CARBON	270K	5%	1/2W
R263	1-216-073-00	RES,CHIP	10K	5%	1/10W	R339	1-260-128-11	CARBON	270K	5%	1/2W
R264	1-240-380-21	RES,CHIP	4.7K	1%	1/10W	R340	1-216-049-11	RES,CHIP	1K	5%	1/10W
R265	1-240-346-21	RES,CHIP	180	1%	1/10W	R341	1-216-042-00	RES,CHIP	510	5%	1/10W
R266	1-240-376-21	RES,CHIP	3.3K	1%	1/10W	R342	1-216-073-00	RES,CHIP	10K	5%	1/10W
R267	1-216-073-00	RES,CHIP	10K	5%	1/10W	R343	1-216-077-91	RES,CHIP	15K	5%	1/10W
R268	1-240-380-21	RES,CHIP	4.7K	1%	1/10W	R344	1-214-929-00	METAL	470K	1%	1/2W
R269	1-240-351-21	RES,CHIP	300	1%	1/10W	R345	1-214-929-00	METAL	470K	1%	1/2W
R270	1-240-372-21	RES,CHIP	2.2K	1%	1/10W	R346	1-240-381-21	RES,CHIP	5.1K	1%	1/10W
R271	1-216-073-00	RES,CHIP	10K	5%	1/10W	R347	1-216-037-00	RES,CHIP	330	5%	1/10W
R272	1-216-073-00	RES,CHIP	10K	5%	1/10W	R348	1-216-073-00	RES,CHIP	10K	5%	1/10W
R273	1-240-380-21	RES,CHIP	4.7K	1%	1/10W	R349	1-247-791-91	CARBON	22	5%	1/4W
R274	1-240-326-21	RES,CHIP	27	1%	1/10W	R351	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R275	1-240-367-21	RES,CHIP	1.3K	1%	1/10W	R352	1-216-113-00	RES,CHIP	470K	5%	1/10W
R276	1-240-388-21	RES,CHIP	10K	1%	1/10W	R400	1-216-065-91	RES,CHIP	4.7K	5%	1/10W

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R401	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R471	1-240-566-21	METAL	68K	1%	1/10W
R402	1-216-049-11	RES,CHIP	1K	5%	1/10W	R472	1-240-570-21	RES,CHIP	100K	1%	1/10W
R403	1-216-081-00	RES,CHIP	22K	5%	1/10W	R473	1-240-570-21	RES,CHIP	100K	1%	1/10W
R404	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R474	1-216-095-00	RES,CHIP	82K	5%	1/10W
R405	1-216-081-00	RES,CHIP	22K	5%	1/10W	R500	1-247-807-31	CARBON	100	5%	1/4W
R406	1-216-070-00	RES,CHIP	7.5K	5%	1/10W	R501	1-249-401-11	CARBON	47	5%	1/4W
R407	1-216-073-00	RES,CHIP	10K	5%	1/10W	R502	1-216-073-00	RES,CHIP	10K	5%	1/10W
R408	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R503	1-240-349-21	RES,CHIP	240	1%	1/10W
R409	1-216-049-11	RES,CHIP	1K	5%	1/10W	R504	1-240-337-21	RES,CHIP	75	1%	1/10W
R410	1-216-049-11	RES,CHIP	1K	5%	1/10W	R505	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R411	1-216-081-00	RES,CHIP	22K	5%	1/10W	R506	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R412	1-240-566-21	METAL	68K	1%	1/10W	R507	1-216-081-00	RES,CHIP	22K	5%	1/10W
R413	1-240-566-21	METAL	68K	1%	1/10W	R508	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R414	1-240-378-21	RES,CHIP	3.9K	1%	1/10W	R509	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R415	1-216-073-00	RES,CHIP	10K	5%	1/10W	R510	1-216-073-00	RES,CHIP	10K	5%	1/10W
R416	1-240-364-21	RES,CHIP	1K	1%	1/10W	R511	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R417	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R512	1-216-049-11	RES,CHIP	1K	5%	1/10W
R418	1-240-364-21	RES,CHIP	1K	1%	1/10W	R513	1-216-081-00	RES,CHIP	22K	5%	1/10W
R419	1-240-364-21	RES,CHIP	1K	1%	1/10W	R514	1-216-081-00	RES,CHIP	22K	5%	1/10W
R420	1-240-388-21	RES,CHIP	10K	1%	1/10W	R515	1-243-639-11	METAL PLATE	0.1	2%	5W F
R421	1-243-638-31	METAL PLATE	0.05	2%	2W F	R516	1-240-397-21	RES,CHIP	24K	1%	1/10W
R422	1-240-389-21	RES,CHIP	11K	1%	1/10W	R517	1-216-073-00	RES,CHIP	10K	5%	1/10W
R423	1-216-105-91	RES,CHIP	220K	5%	1/10W	R600	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R424	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R601	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R425	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R602	1-216-049-11	RES,CHIP	1K	5%	1/10W
R426	1-216-081-00	RES,CHIP	22K	5%	1/10W	R603	1-216-081-00	RES,CHIP	22K	5%	1/10W
R427	1-216-089-91	RES,CHIP	47K		1/10W	R604	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R428	1-216-049-11	RES,CHIP	1K	5%	1/10W	R605	1-216-081-00	RES,CHIP	22K	5%	1/10W
R429	1-216-081-00	RES,CHIP	22K	5%	1/10W	R606	1-216-073-00	RES,CHIP	10K	5%	1/10W
R430	1-216-073-00	RES,CHIP	10K	5%	1/10W	R607	1-216-073-00	RES,CHIP	10K	5%	1/10W
R431	1-216-081-00	RES,CHIP	22K	5%	1/10W	R608	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R433	1-240-570-21	RES,CHIP	100K	1%	1/10W	R609	1-216-049-11	RES,CHIP	1K	5%	1/10W
R434	1-216-085-00	RES,CHIP	33K	5%	1/10W	R610	1-216-049-11	RES,CHIP	1K	5%	1/10W
R436	1-216-073-00	RES,CHIP	10K	5%	1/10W	R611	1-216-081-00	RES,CHIP	22K	5%	1/10W
R437	1-216-073-00	RES,CHIP	10K	5%	1/10W	R612	1-215-457-00	METAL	33K	1%	1/4W
R438	1-216-049-11	RES,CHIP	1K	5%	1/10W	R613	1-215-457-00	METAL	33K	1%	1/4W
R439	1-216-073-00	RES,CHIP	10K	5%	1/10W	R614	1-240-375-21	RES,CHIP	3K	1%	1/10W
R441	1-240-570-21	RES,CHIP	100K	1%	1/10W	R615	1-216-085-00	RES,CHIP	33K	5%	1/10W
R442	1-240-570-21	RES,CHIP	100K	1%	1/10W	R616	1-240-364-21	RES,CHIP	1K	1%	1/10W
R443	1-240-371-21	RES,CHIP	2K	1%	1/10W	R617	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R444	1-240-382-21	RES,CHIP	5.6K	1%	1/10W	R618	1-240-364-21	RES,CHIP	1K	1%	1/10W
R445	1-216-073-00	RES,CHIP	10K	5%	1/10W	R619	1-240-364-21	RES,CHIP	1K	1%	1/10W
R446	1-216-049-11	RES,CHIP	1K	5%	1/10W	R620	1-240-388-21	RES,CHIP	10K	1%	1/10W
R447	1-240-396-21	RES,CHIP	22K	1%	1/10W	R621	1-243-638-31	METAL PLATE	0.05	2%	2W F
R448	1-240-368-21	RES,CHIP	1.5K	1%	1/10W	R622	1-240-388-21	RES,CHIP	10K	1%	1/10W
R449	1-216-081-00	RES,CHIP	22K	5%	1/10W	R623	1-216-105-91	RES,CHIP	220K	5%	1/10W
R450	1-216-049-11	RES,CHIP	1K	5%	1/10W	R624	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R451	1-242-914-11	CEMENT	100	5%	5W	R625	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R452	1-240-388-21	RES,CHIP	10K	1%	1/10W	R626	1-216-081-00	RES,CHIP	22K	5%	1/10W
R453	1-240-368-21	RES,CHIP	1.5K	1%	1/10W	R627	1-216-089-91	RES,CHIP	47K		1/10W
R454	1-240-570-21	RES,CHIP	100K	1%	1/10W	R628	1-216-049-11	RES,CHIP	1K	5%	1/10W
R455	1-240-570-21	RES,CHIP	100K	1%	1/10W	R629	1-216-081-00	RES,CHIP	22K	5%	1/10W
R456	1-216-073-00	RES,CHIP	10K	5%	1/10W	R630	1-216-073-00	RES,CHIP	10K	5%	1/10W
R457	1-240-570-21	RES,CHIP	100K	1%	1/10W	R631	1-216-081-00	RES,CHIP	22K	5%	1/10W
R459	1-240-383-21	RES,CHIP	6.2K	1%	1/10W	R632	1-240-566-21	METAL	68K	1%	1/10W
R460	1-242-916-11	CEMENT	16K	5%	5W	R633	1-216-085-00	RES,CHIP	33K	5%	1/10W
R461	1-216-113-00	RES,CHIP	470K	5%	1/10W	R635	1-216-073-00	RES,CHIP	10K	5%	1/10W
R462	1-242-916-11	CEMENT	16K	5%	5W	R636	1-216-073-00	RES,CHIP	10K	5%	1/10W
R463	1-240-365-21	RES,CHIP	1.1K	1%	1/10W	R637	1-216-049-11	RES,CHIP	1K	5%	1/10W
R465	1-216-393-81	METAL OXIDE	2.2	5%	3W	R638	1-216-073-00	RES,CHIP	10K	5%	1/10W
R466	1-216-393-81	METAL OXIDE	2.2	5%	3W	R640	1-214-913-00	METAL	100K	1%	1/2W
R467	1-242-916-11	CEMENT	16K	5%	5W	R641	1-215-457-00	METAL	33K	1%	1/4W
R468	1-242-914-11	CEMENT	100	5%	5W	R642	1-240-380-21	RES,CHIP	4.7K	1%	1/10W
R469	1-242-914-11	CEMENT	100	5%	5W	R643	1-240-382-21	RES,CHIP	5.6K	1%	1/10W
R470	1-240-566-21	METAL	68K	1%	1/10W	R644	1-216-073-00	RES,CHIP	10K	5%	1/10W

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R645	1-216-049-11	RES,CHIP	1K 5% 1/10W	* A-1391-046-A S1 MOUNT *****			
R646	1-240-389-21	RES,CHIP	11K 1% 1/10W	<CAPACITOR>			
R647	1-240-368-21	RES,CHIP	1.5K 1% 1/10W	C1201	1-126-392-11	ELECT CHIP 100μF 20% 6.3V	
R648	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1202	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
R649	1-216-049-11	RES,CHIP	1K 5% 1/10W	C1203	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
R650	1-242-913-11	CEMENT	15 5% 5W	C1204	1-163-021-91	CERAMIC CHIP 0.01μF 10% 50V	
R651	1-240-388-21	RES,CHIP	10K 1% 1/10W	<CONNECTOR>			
R652	1-240-368-21	RES,CHIP	1.5K 1% 1/10W	CN1201	1-506-482-11	PIN, CONNECTOR 3P	
R653	1-242-941-21	RES,CHIP	120K 1% 1/10W	<IC>			
R654	1-242-941-21	RES,CHIP	120K 1% 1/10W	IC1201	8-759-947-34	IC LM35DZ	
R655	1-216-073-00	RES,CHIP	10K 5% 1/10W	IC1202	8-759-510-71	IC UPC358G2-T1	
R656	1-240-362-21	RES,CHIP	820 1% 1/10W	<RESISTOR>			
R658	1-240-392-21	RES,CHIP	15K 1% 1/10W	R1201	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R659	1-215-896-00	METAL	4.7K 5% 2W	R1202	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
R660	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1203	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W	
R661	1-215-896-00	METAL	4.7K 5% 2W	R1204	1-216-025-91	RES-CHIP 100 5% 1/10W	
R662	1-242-913-11	CEMENT	15 5% 5W	*****			
R663	1-216-689-11	METAL	39K 0.50% 1/10W	* A-1373-813-A UA MOUNT *****			
R700	1-247-807-31	CARBON	100 5% 1/4W	1-900-254-68 CONNECTOR ASSY, LUG			
R701	1-249-401-11	CARBON	47 5% 1/4W	<CAPACITOR>			
R703	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1101	1-126-382-11	ELECT 100μF 20% 6.3V	
R704	1-240-332-21	RES,CHIP	47 1% 1/10W	C1102	1-163-031-11	CERAMIC CHIP 0.01μF 50V	
R705	1-240-352-21	RES,CHIP	330 1% 1/10W	<CONNECTOR>			
R706	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	CN1101	* 1-564-519-11	PLUG, CONNECTOR 4P	
R707	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	CN1102	* 1-564-524-11	PLUG, CONNECTOR 9P	
R708	1-216-081-00	RES,CHIP	22K 5% 1/10W	<DIODE>			
R709	1-216-308-00	RES,CHIP	4.7 5% 1/10W	D1101	8-719-110-17	DIODE RD10ES-T1B2	
R710	1-216-308-00	RES,CHIP	4.7 5% 1/10W	D1102	8-719-110-17	DIODE RD10ES-T1B2	
R711	1-216-073-00	RES,CHIP	10K 5% 1/10W	D1103	8-719-073-01	DIODE MA111-TX	
R712	1-216-049-11	RES,CHIP	1K 5% 1/10W	D1111	8-719-150-92	DIODE RD33ES-T1B2	
R713	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	D1112	8-719-150-92	DIODE RD33ES-T1B2	
R714	1-216-081-00	RES,CHIP	22K 5% 1/10W	D1113	8-719-150-92	DIODE RD33ES-T1B2	
R715	1-216-081-00	RES,CHIP	22K 5% 1/10W	D1114	8-719-150-92	DIODE RD33ES-T1B2	
R716	1-243-638-31	METAL PLATE	0.05 2% 2W F	D1115	8-719-110-17	DIODE RD10ES-T1B2	
R717	1-216-689-11	METAL	39K 0.50% 1/10W	D1116	8-719-110-17	DIODE RD10ES-T1B2	
R718	1-216-073-00	RES,CHIP	10K 5% 1/10W	<JACK>			
<VARIABLE RESISTOR>				J1101	1-573-969-11	JACK BLOCK, PIN (AUDIO L/R OUT)	
RV150	1-241-764-11	RES,ADJ,CERMET	10K	J1102	1-695-605-11	JACK, MINIATURE (CONTROL S OUT)	
RV201	1-241-762-11	RES,ADJ,CERMET	2.2K	J1103	1-695-605-11	JACK, MINIATURE (CONTROL S IN)	
RV250	1-241-762-11	RES,ADJ,CERMET	2.2K	<COIL>			
RV300	1-241-762-11	RES,ADJ,CERMET	2.2K	L1101	1-422-613-11	COIL, AIR CORE	
RV400	1-241-760-11	RES,ADJ,CERMET	470	L1102	1-422-613-11	COIL, AIR CORE	
RV402	1-241-760-11	RES,ADJ,CERMET	470	*****			
RV500	1-241-764-11	RES,ADJ,CERMET	10K				
RV600	1-241-760-11	RES,ADJ,CERMET	470				
RV602	1-241-760-11	RES,ADJ,CERMET	470				
RV700	1-241-764-11	RES,ADJ,CERMET	10K				
<TRANSFORMER>							
T101	1-435-218-11	TRANSFORMER, CONVERTOR					
T102	1-435-219-11	TRANSFORMER, CONVERTOR					
T105	1-426-931-21	TRANSFORMER, DRIVE					
T501	1-435-216-11	TRANSFORMER, CONVERTOR					
T502	1-426-931-21	TRANSFORMER, DRIVE					
T701	1-435-217-11	TRANSFORMER, CONVERTOR					
T702	1-426-931-21	TRANSFORMER, DRIVE					
<VARISTOR>							
VDR100△	1-809-909-22	VARISTOR NV270D03-TB2					
VDR101△	1-801-625-21	VARISTOR 470NR10D					
VDR102△	1-801-625-21	VARISTOR 470NR10D					

Ref.No.	Part No.	Description	Remark				Ref.No.	Part No.	Description	Remark					
L1103	1-422-613-11	COIL, AIR CORE					C974	1-126-786-11	ELECT	47μF	20%	16V			
L1104	1-422-613-11	COIL, AIR CORE					C981	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V			
							C982	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V			
		<TRANSISTOR>					C990	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V			
Q1101	8-729-027-38	TRANSISTOR DTA144EKA-T146					C991	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V			
Q1102	1-801-806-11	TRANSISTOR DTC144EKA-T146													
Q1103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-S													
		<RESISTOR>					CN901	1-506-485-11	PIN, CONNECTOR 6P						
R1101	1-216-097-91	RES-CHIP	100K	5%	1/10W		CN902	1-506-494-11	PIN, CONNECTOR 15P						
R1102	1-216-097-91	RES-CHIP	100K	5%	1/10W		CN903	1-506-491-11	PIN, CONNECTOR 12P						
R1103	1-216-025-91	RES-CHIP	100	5%	1/10W		CN905	1-750-628-11	SOCKET, DIN 8P						
R1104	1-216-049-91	RES-CHIP	1K	5%	1/10W				<DIODE>						
R1105	1-216-049-91	RES-CHIP	1K	5%	1/10W		D901	8-719-402-16	DIODE 02CZ10-TE85L						
R1106	1-216-049-91	RES-CHIP	1K	5%	1/10W		D902	8-719-402-16	DIODE 02CZ10-TE85L						
R1107	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		D903	8-719-402-16	DIODE 02CZ10-TE85L						
R1108	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		D904	8-719-402-16	DIODE 02CZ10-TE85L						
R1111	1-216-025-91	RES-CHIP	100	5%	1/10W		D905	8-719-402-16	DIODE 02CZ10-TE85L						
R1112	1-216-025-91	RES-CHIP	100	5%	1/10W		D921	8-719-800-76	DIODE 1SS226-TE85L						
		<TERMINAL BOARD>					D922	8-719-800-76	DIODE 1SS226-TE85L						
TB1101	1-537-187-11	TERMINAL, PUSH (4P) (SPEAKER)					D923	8-719-800-76	DIODE 1SS226-TE85L						
							D926	8-719-402-16	DIODE 02CZ10-TE85L						

	* A-1373-812-A	UJ MOUNT					D927	8-719-402-16	DIODE 02CZ10-TE85L						
		*****					D928	8-719-800-76	DIODE 1SS226-TE85L						
		<CAPACITOR>					D929	8-719-800-76	DIODE 1SS226-TE85L						
C901	1-126-786-11	ELECT	47μF	20%	16V		D930	8-719-800-76	DIODE 1SS226-TE85L						
C902	1-126-786-11	ELECT	47μF	20%	16V		D933	8-719-402-16	DIODE 02CZ10-TE85L						
C903	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V		D934	8-719-402-16	DIODE 02CZ10-TE85L						
C904	1-126-791-11	ELECT	10μF	20%	16V		D940	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C905	1-126-791-11	ELECT	10μF	20%	16V		D941	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C921	1-126-786-11	ELECT	47μF	20%	16V		D942	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C922	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		D943	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C923	1-126-786-11	ELECT	47μF	20%	16V		D944	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C924	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		D945	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C925	1-126-786-11	ELECT	47μF	20%	16V		D946	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C926	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		D947	8-719-976-96	DIODE UDZ-TE-17-4.7B						
C927	1-126-320-11	ELECT	10μF	20%	16V		D951	8-719-402-16	DIODE 02CZ10-TE85L						
C928	1-124-290-00	ELECT	47μF	20%	10V		D952	8-719-402-16	DIODE 02CZ10-TE85L						
C929	1-126-791-11	ELECT	10μF	20%	16V		D953	8-719-402-16	DIODE 02CZ10-TE85L						
C930	1-126-791-11	ELECT	10μF	20%	16V		D954	8-719-402-16	DIODE 02CZ10-TE85L						
C931	1-126-786-11	ELECT	47μF	20%	16V				<IC>						
C932	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		IC903	8-759-446-66	IC MM1113XFBE						
C933	1-126-786-11	ELECT	47μF	20%	16V		IC904	8-759-446-66	IC MM1113XFBE						
C934	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		IC905	8-759-360-07	IC BA7657F-E2						
C935	1-126-786-11	ELECT	47μF	20%	16V		IC906	8-759-011-64	IC MC74HC4052F-T2						
C936	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V				<JACK>						
C937	1-126-320-11	ELECT	10μF	20%	16V		J901	1-694-453-12	TERMINAL BOARD ASSY, I/O (RGB/LINE IN/OUT)						
C938	1-124-290-00	ELECT	47μF	20%	10V		J903	1-569-578-11	TERMINAL, S (WITH SW) (LINE Y/C OUT)						
C939	1-126-791-11	ELECT	10μF	20%	16V		J905	1-694-452-12	TERMINAL BOARD ASSY, I/O (REMOTE)						
C940	1-126-791-11	ELECT	10μF	20%	16V				<TRANSISTOR>						
C941	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		Q901	8-729-027-38	TRANSISTOR DTA144EKA-T146						
C951	1-165-319-11	CERAMIC CHIP	0.1μF	50V			Q902	8-729-027-38	TRANSISTOR DTA144EKA-T146						
C952	1-126-786-11	ELECT	47μF	20%	16V		Q903	8-729-027-38	TRANSISTOR DTA144EKA-T146						
C953	1-165-319-11	CERAMIC CHIP	0.1μF	50V			Q904	1-801-806-11	TRANSISTOR DTC144EKA-T146						
C971	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		Q905	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR						
C972	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V		Q906	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR						
C973	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V										

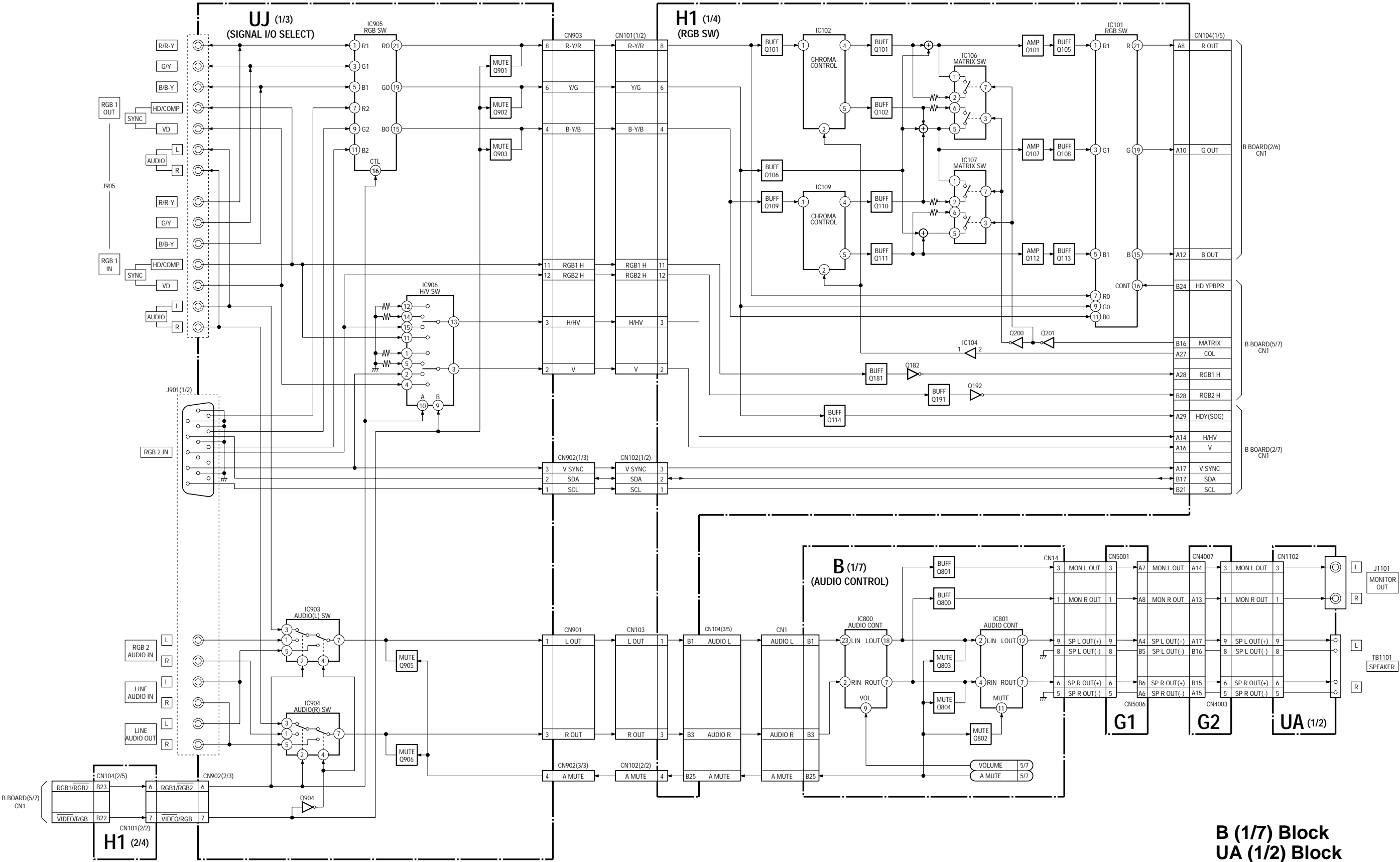


Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark
<RESISTOR>						9-900-029-01	BATTERY COVER (FOR RM-921)		
R901	1-216-295-91	SHORT	0						
R902	1-216-295-91	SHORT	0						
R903	1-216-025-91	RES-CHIP	100	5%	1/10W				
R905	1-215-394-00	METAL	75	1%	1/4W				
R906	1-216-624-11	METAL CHIP	75	0.50%	1/10W				
R907	1-216-089-91	RES-CHIP	47K	5%	1/10W				
R909	1-216-089-91	RES-CHIP	47K	5%	1/10W				
R915	1-216-624-11	METAL CHIP	75	0.50%	1/10W				
R916	1-216-624-11	METAL CHIP	75	0.50%	1/10W				
R917	1-216-624-11	METAL CHIP	75	0.50%	1/10W				
R918	1-216-057-00	RES-CHIP	2.2K	5%	1/10W				
R919	1-216-033-00	RES-CHIP	220	5%	1/10W				
R921	1-216-057-00	RES-CHIP	2.2K	5%	1/10W				
R922	1-216-033-00	RES-CHIP	220	5%	1/10W				
R924	1-216-089-91	RES-CHIP	47K	5%	1/10W				
R926	1-216-089-91	RES-CHIP	47K	5%	1/10W				
R928	1-216-624-11	METAL CHIP	75	0.50%	1/10W				
R929	1-216-624-11	METAL CHIP	75	0.50%	1/10W				
R930	1-216-624-11	METAL CHIP	75	0.50%	1/10W				
R931	1-216-057-00	RES-CHIP	2.2K	5%	1/10W				
R932	1-216-033-00	RES-CHIP	220	5%	1/10W				
R934	1-216-057-00	RES-CHIP	2.2K	5%	1/10W				
R935	1-216-033-00	RES-CHIP	220	5%	1/10W				
R937	1-216-089-91	RES-CHIP	47K	5%	1/10W				
R939	1-216-089-91	RES-CHIP	47K	5%	1/10W				
R941	1-216-081-00	RES-CHIP	22K	5%	1/10W				
R942	1-216-081-00	RES-CHIP	22K	5%	1/10W				
R943	1-216-121-91	RES-CHIP	1M	5%	1/10W				
R944	1-216-121-91	RES-CHIP	1M	5%	1/10W				
R945	1-216-121-91	RES-CHIP	1M	5%	1/10W				
R946	1-216-295-91	SHORT	0						
R947	1-216-295-91	SHORT	0						
R948	1-216-295-91	SHORT	0						
R949	1-216-073-00	RES-CHIP	10K	5%	1/10W				
R950	1-216-073-00	RES-CHIP	10K	5%	1/10W				
R951	1-216-073-00	RES-CHIP	10K	5%	1/10W				
R952	1-216-073-00	RES-CHIP	10K	5%	1/10W				
R971	1-216-073-00	RES-CHIP	10K	5%	1/10W				
R985	1-216-025-91	RES-CHIP	100	5%	1/10W				
R986	1-216-025-91	RES-CHIP	100	5%	1/10W				
R987	1-216-295-91	SHORT	0						
R988	1-216-295-91	SHORT	0						
R990	1-216-295-91	SHORT	0						
R991	1-215-394-00	METAL	75	1%	1/4W				
R995	1-216-025-91	RES-CHIP	100	5%	1/10W				
R996	1-216-025-91	RES-CHIP	100	5%	1/10W				

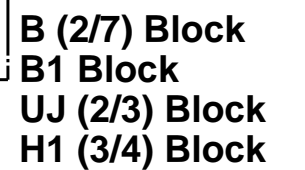
ACCESSORIES									

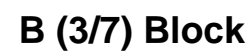
X-4037-906-1	CARD ASSY, WARRANTY (L) (PFM-500A3W)								
1-475-089-11	REMOTE COMMANDER (RM-921)								
3-864-657-03	OPERATING INSTRUCTIONS (MB-514) (ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, JAPANESE)								
3-864-658-04	INSTALLATION MANUAL FOR DEALER (MB-514) (ENGLISH, JAPANESE)								
4-076-854-01	OPERATING INSTRUCTIONS (PFM-500A3W/510A2W) (ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, JAPANESE)								

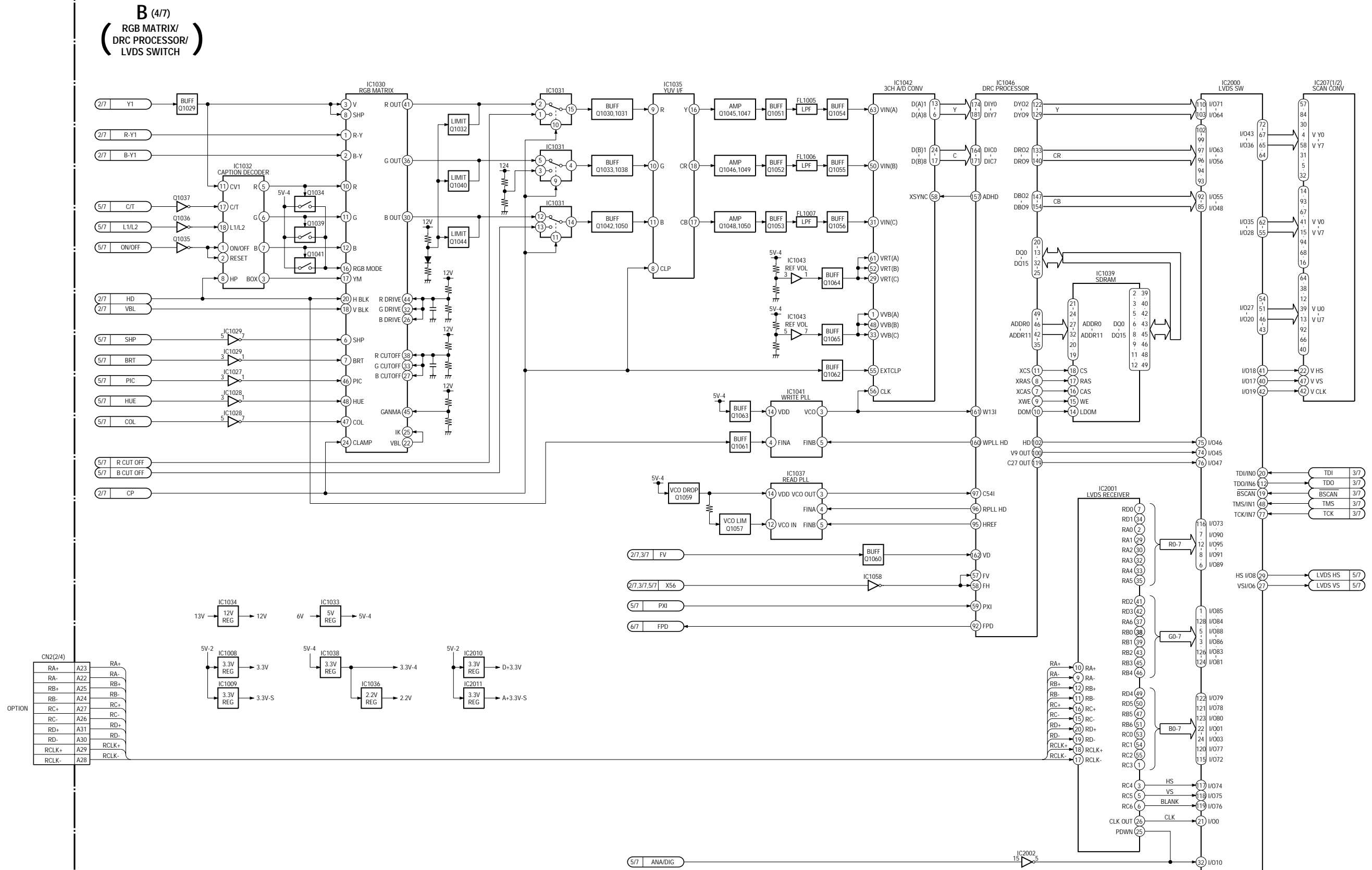
Section 8
Block Diagrams



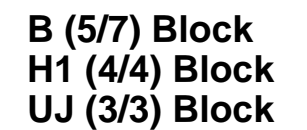
B (1/7) Block
UA (1/2) Block
UJ (1/3) Block
H1 (1/4), (2/4) Block



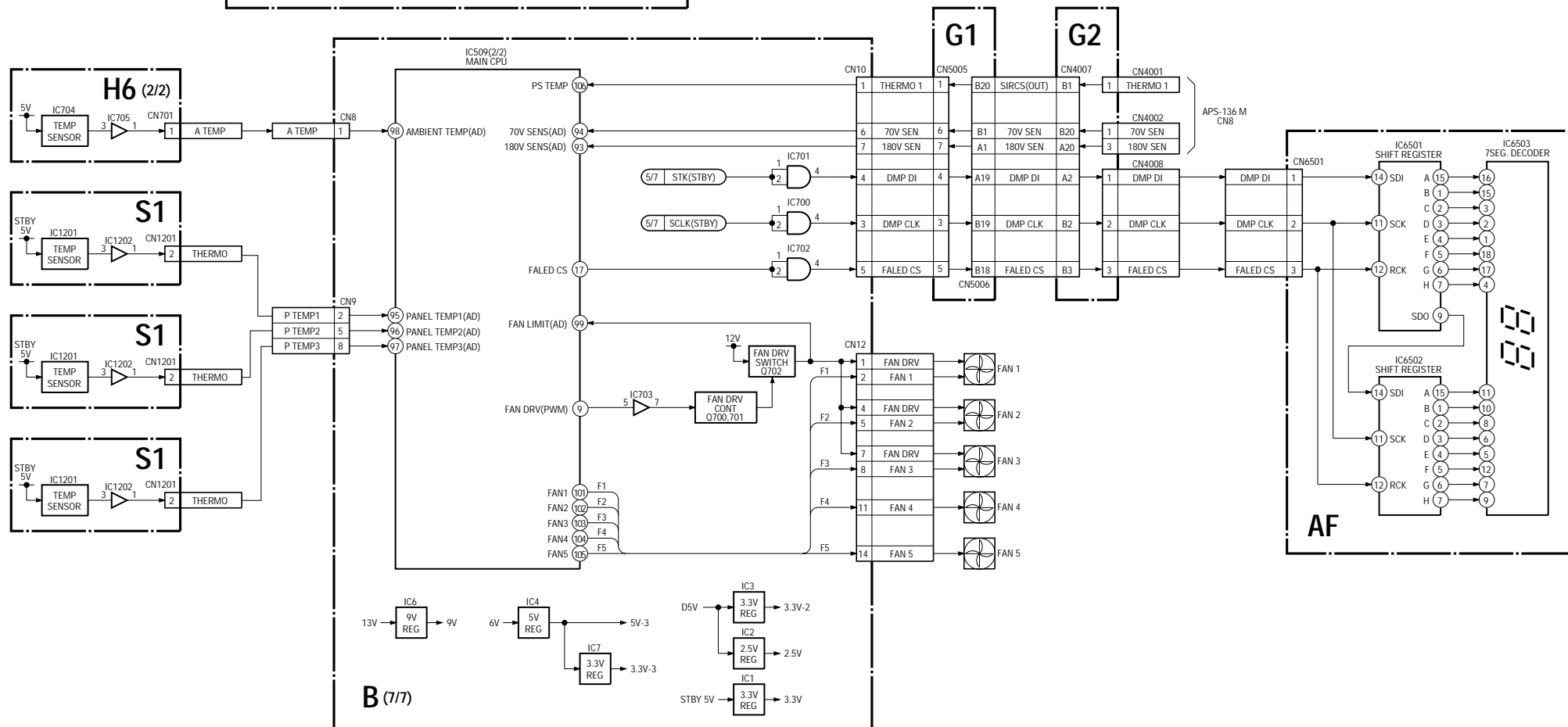




B (4/7) Block

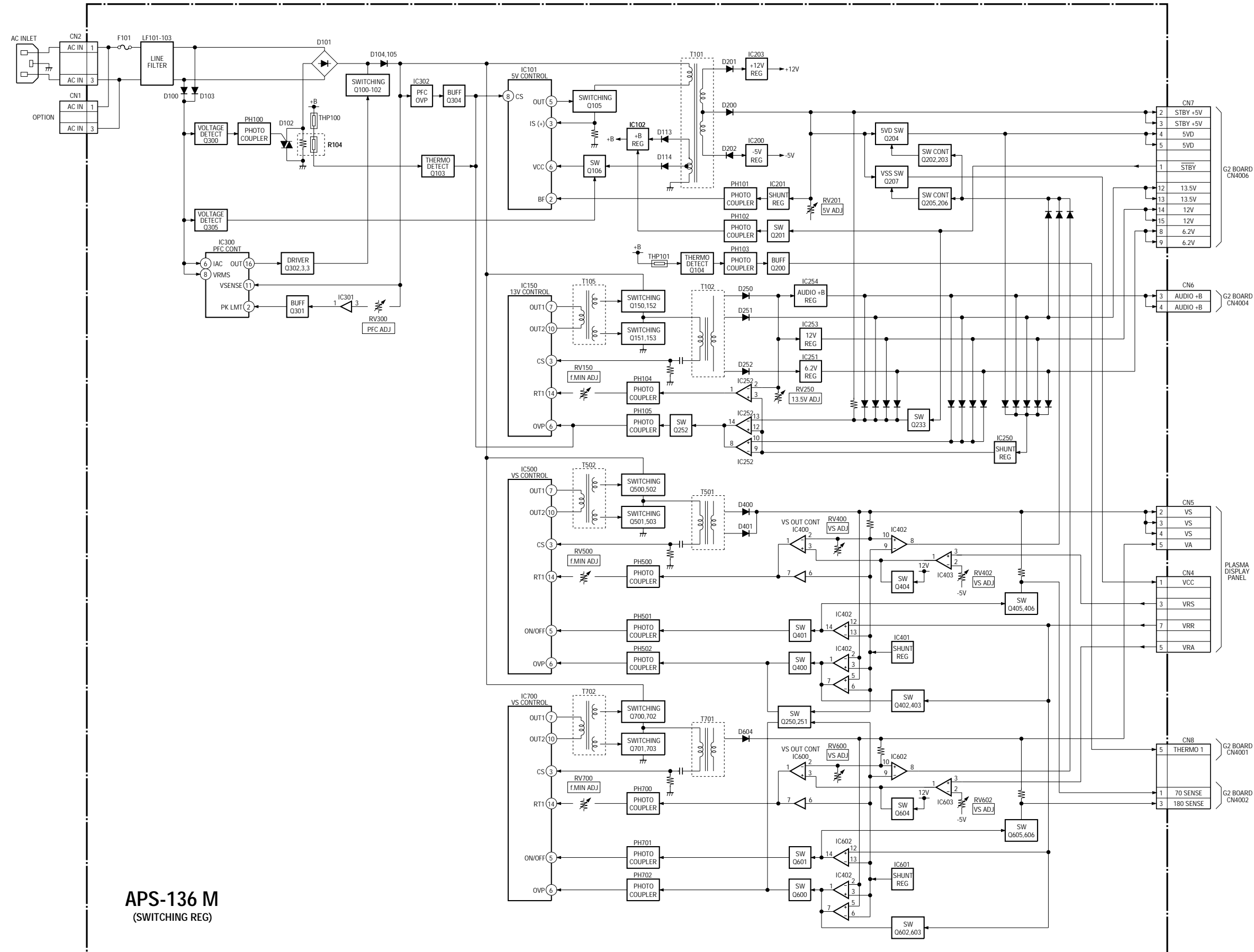






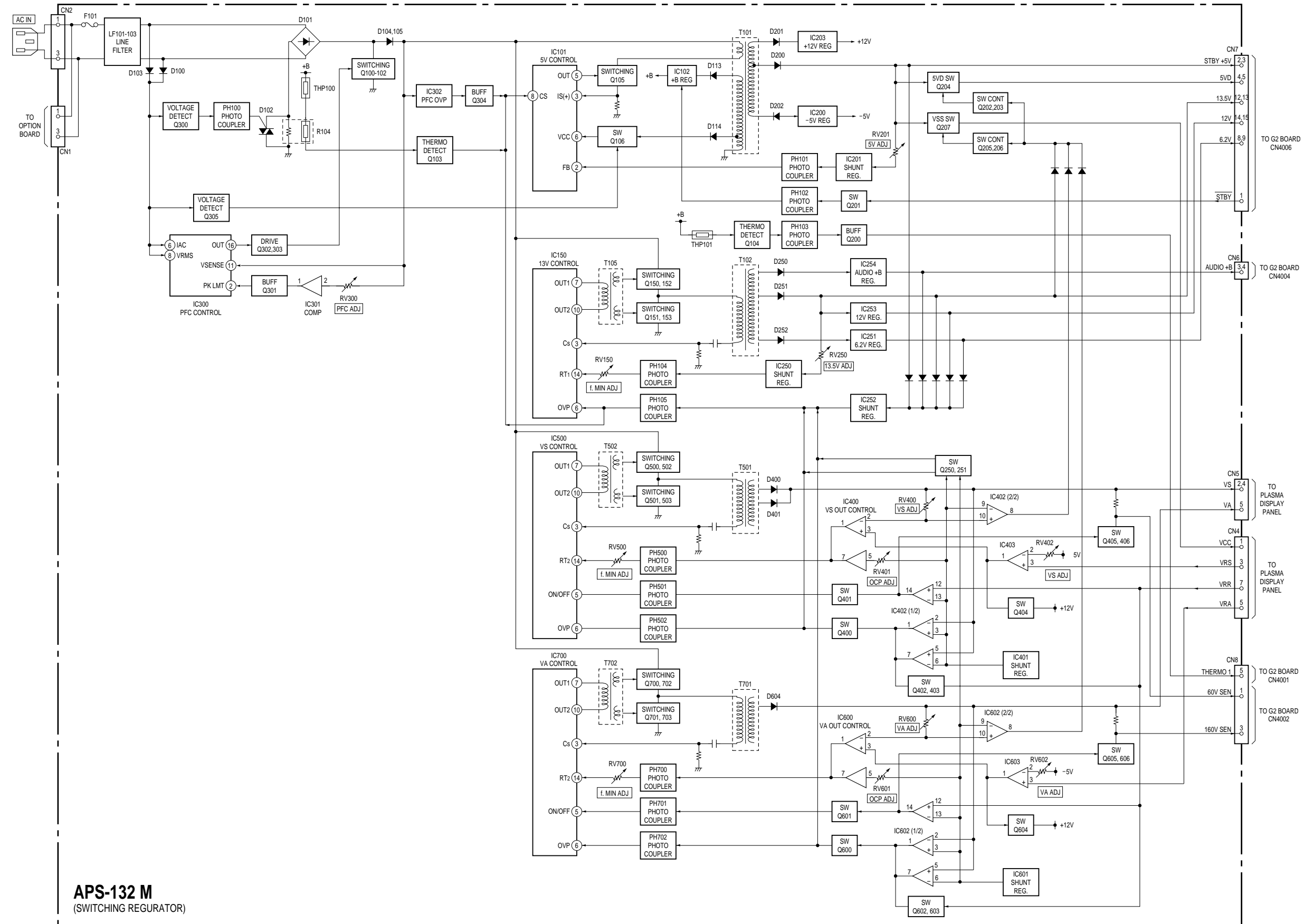
B (7/7) Block
H6 Block
AF Block
UA (2/2) Block
S1 Block

PFM-500A3W







APS-136 M Block

PFM-510A2W



Section 9
Diagrams





Note:


- Parts marked “ * ” differ according to the model/destination. Refer to the mount table for each function.
- The parts marked “ # ” on schematic diagrams are not mounted.
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
-  : fusible resistor
-  : nonflammable resistor
-  : internal component
-  : panel designation and adjustment for repair
- Caution when replacing chip parts
New parts must be attached after removal of the chip.
Be careful not to heat the minus side of a tantalum capacitor, because it is easily damaged by the heat.


Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

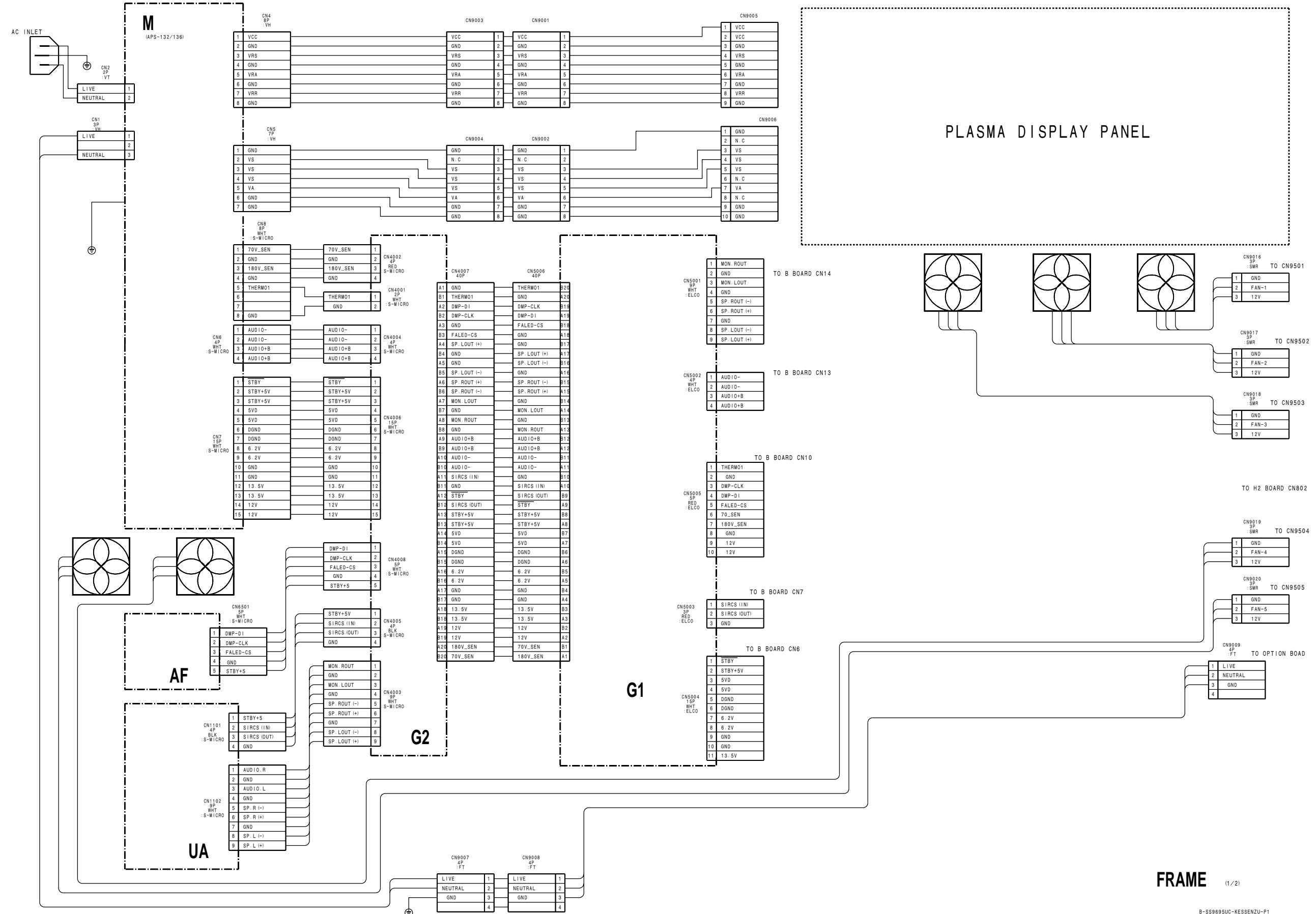
[Measuring conditions, voltage and waveform]

- A voltage value is the reference value between the measurement point and the earth, when the NTSC color bar signal and RGB color bar signal are received from the color bar generator (digital multi-meter used: 10 M ohms/V DC).
- Unit of voltage is V (volt).
-  : B+line
-  : B- line
- Voltage variations may occur due to normal production tolerances.
- No mark : RGB color bar signal.
-  : Measurement disabled.
- Circled numbers indicate the reference waveform.
-  : Signal path.

The components identified marked  are critical for safety.
Replace only with the part number specified.

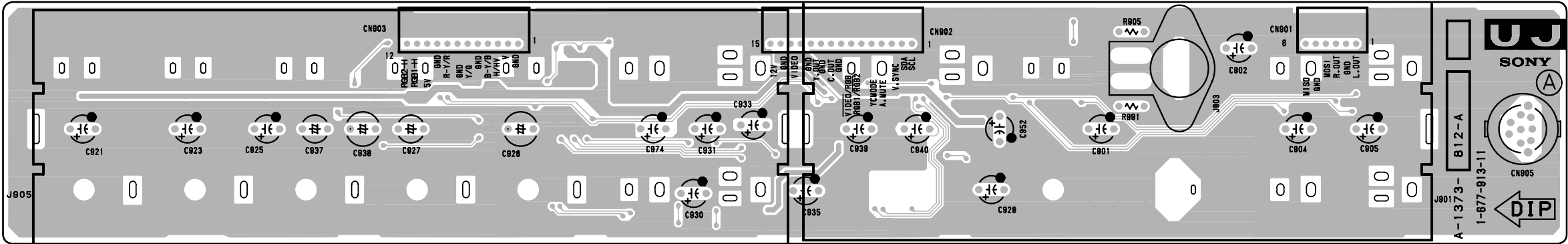
Les composants identifiés par la marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

9-1. Frame Schematic Diagrams

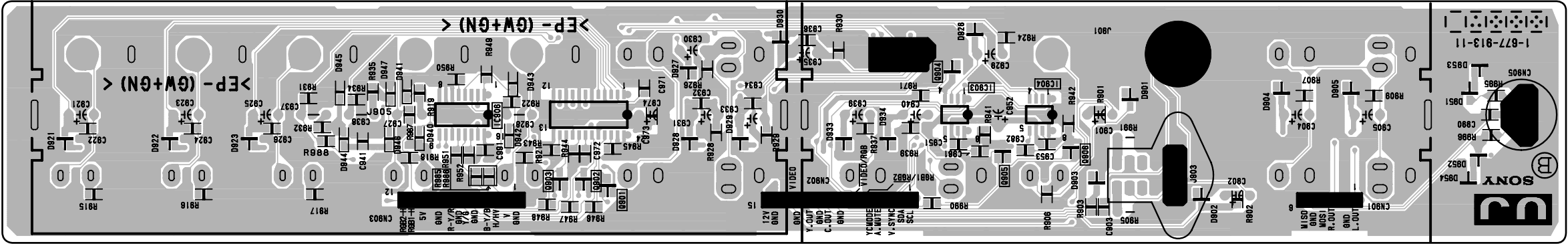




9-2. Schematic Diagrams and Printed Wiring Boards

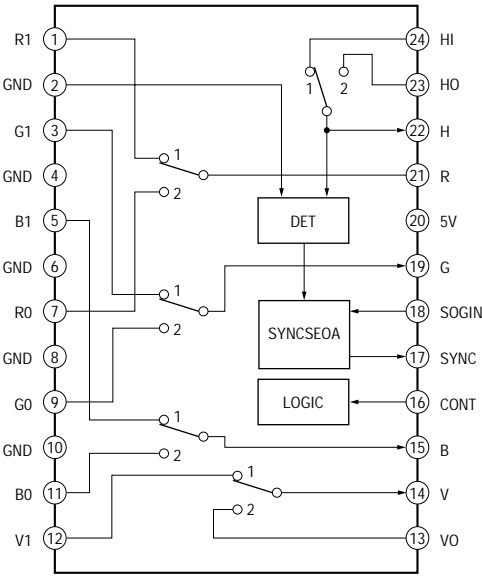


UJ -A SIDE-
SUFFIX: -11

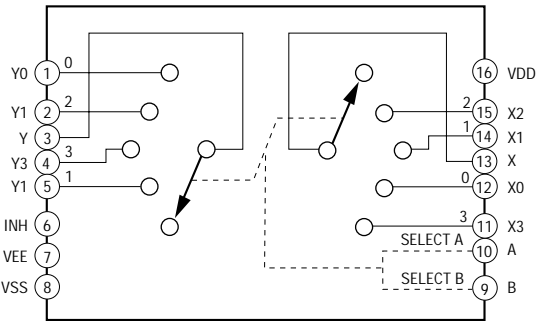


UJ -B SIDE-
SUFFIX: -11

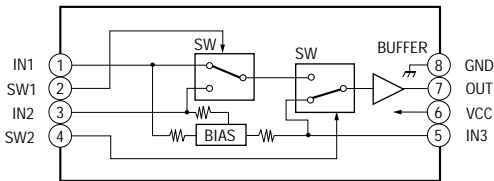
BA7657F-E2 (IC905)



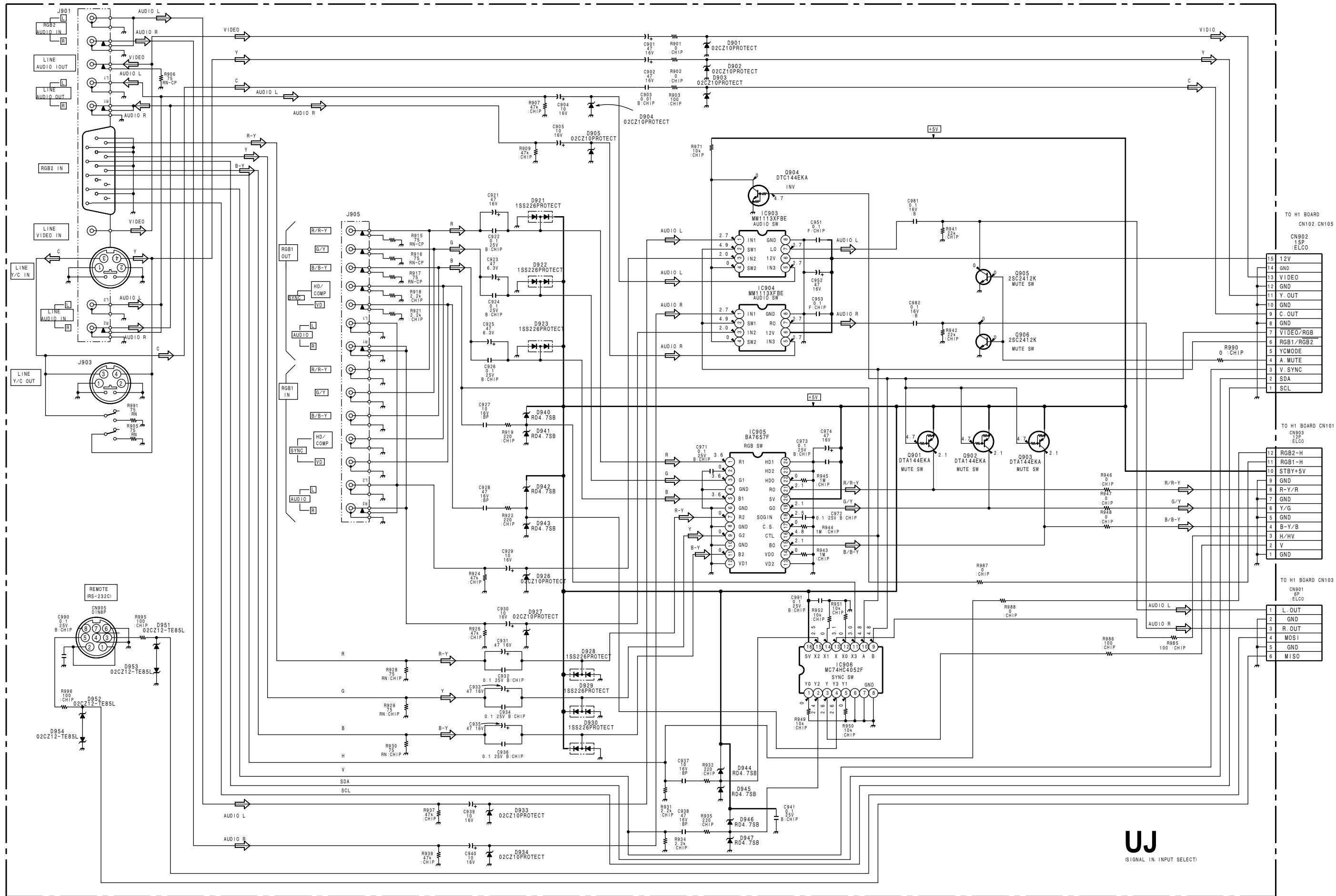
MC74HC4052F-T2 (IC906)



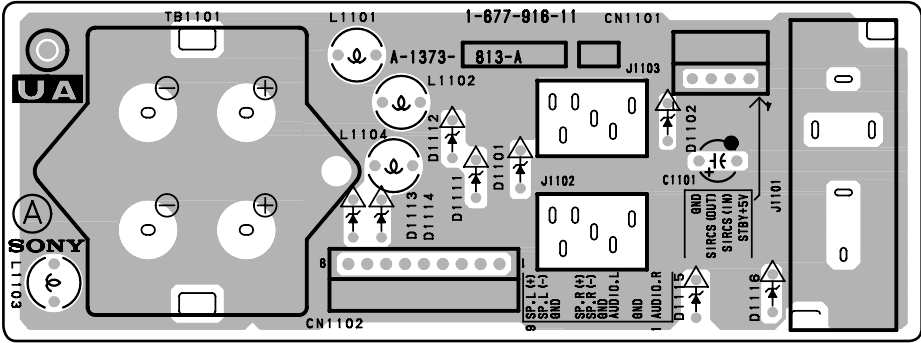
MM1113XFB (IC903, IC904)



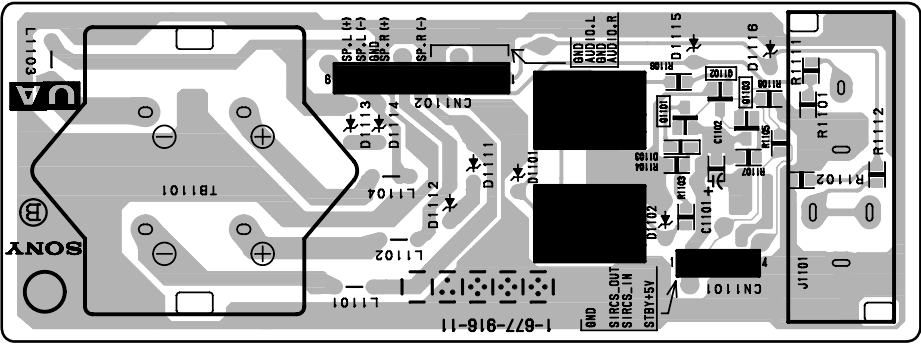
UJ UJ



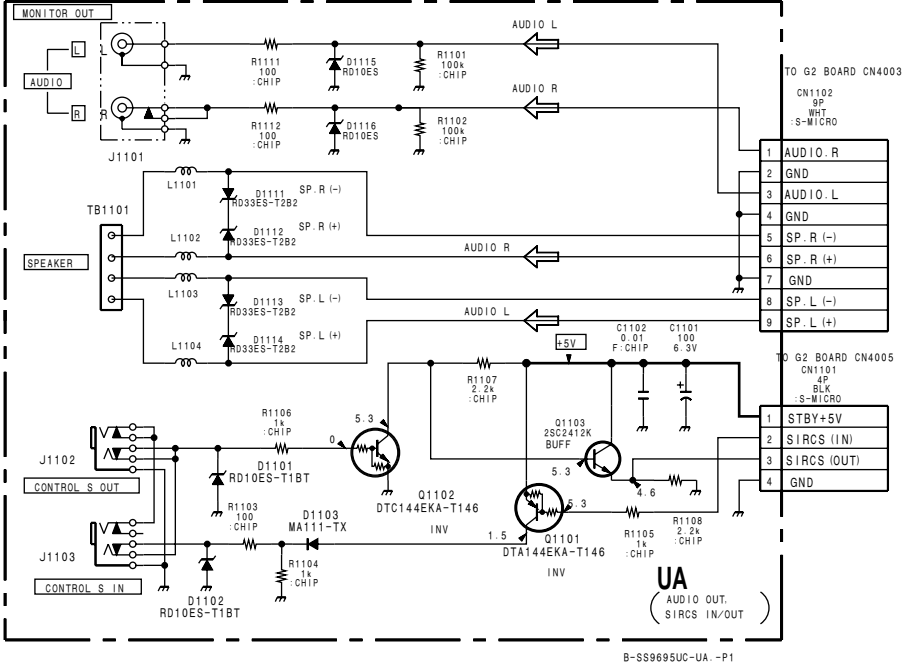
UJ
(SIGNAL IN. INPUT SELECT)



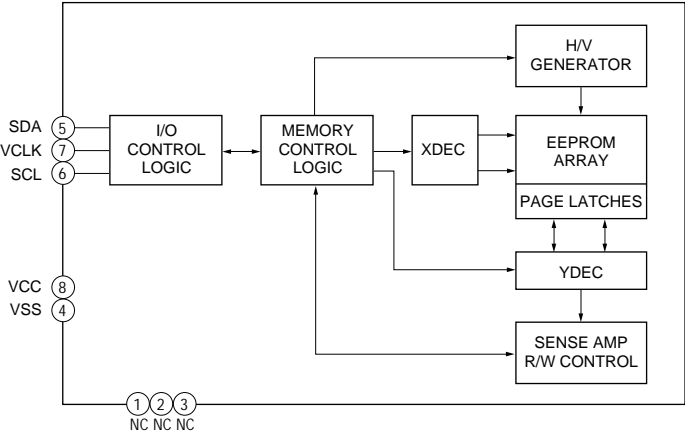
UA -A SIDE-
SUFFIX: -11



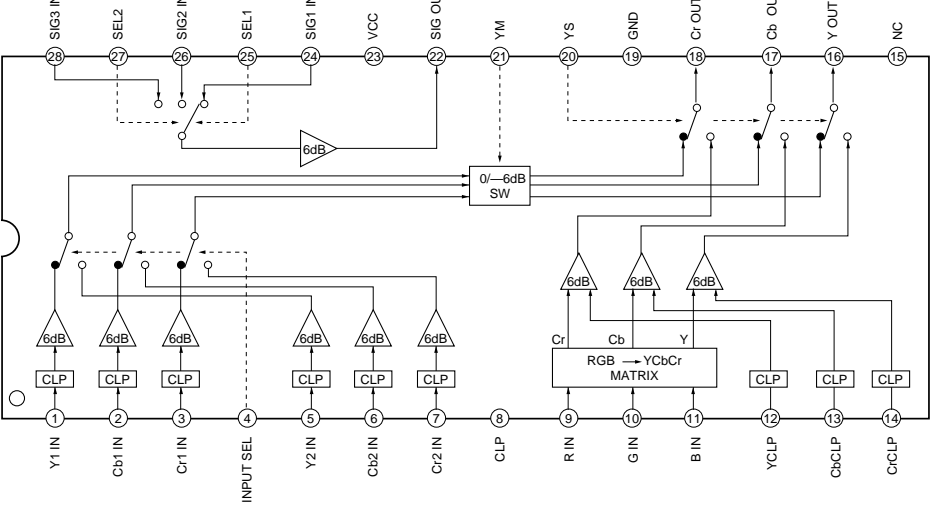
UA -B SIDE-
SUFFIX: -11



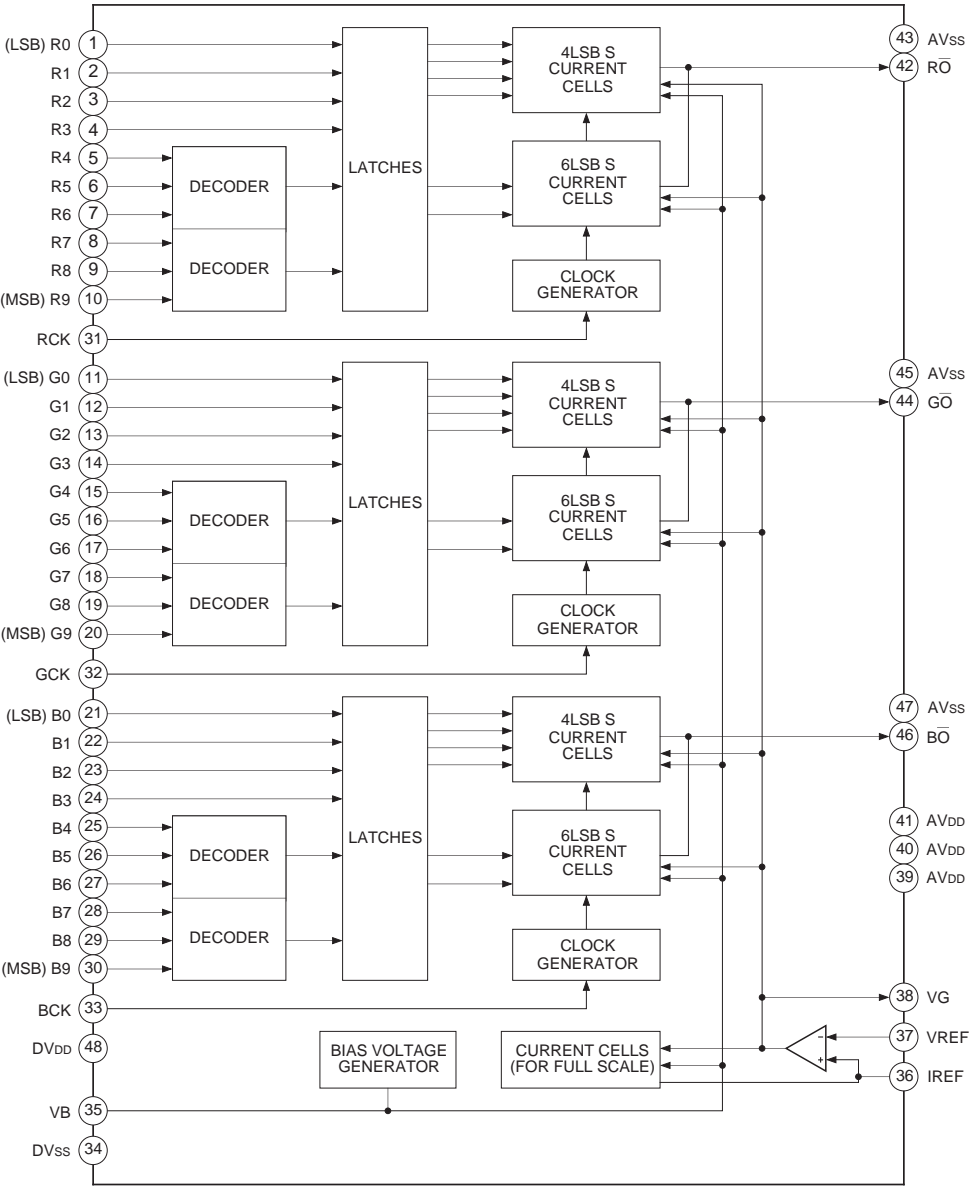
24LC21T/SN (IC103)



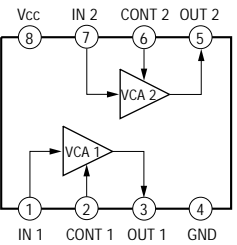
CXA2119M-T6 (IC1035)



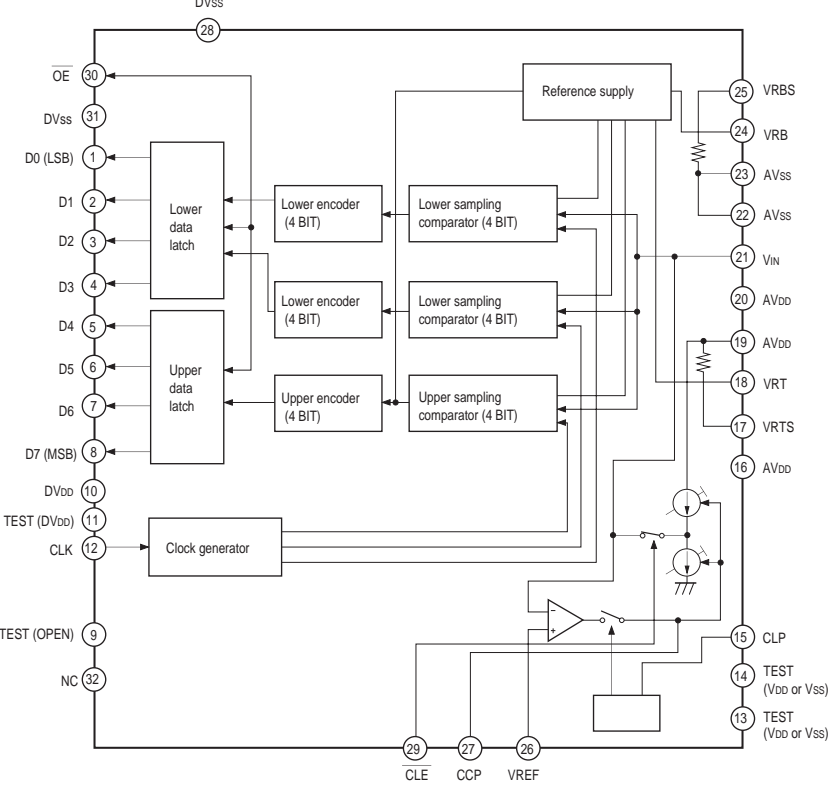
CXD2309Q-T6 (IC4006)



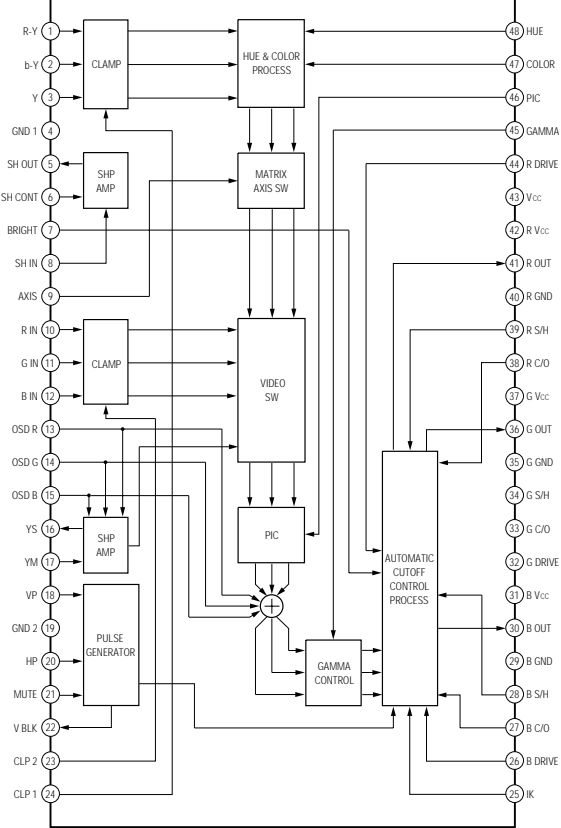
CXA1211M-T4 (IC1005, 1000, IC1001)



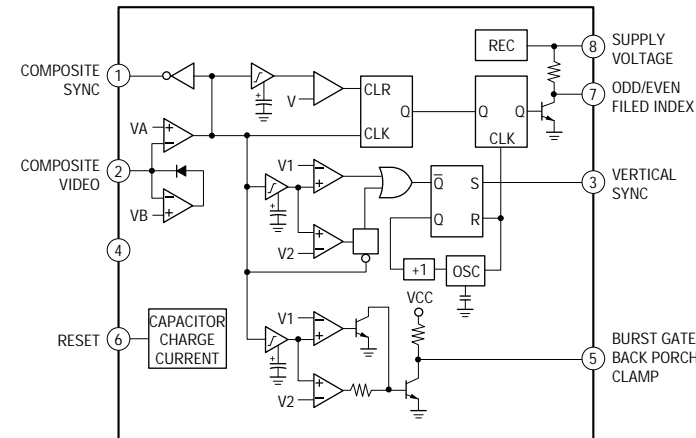
CXD2300Q-T4 (IC4003)



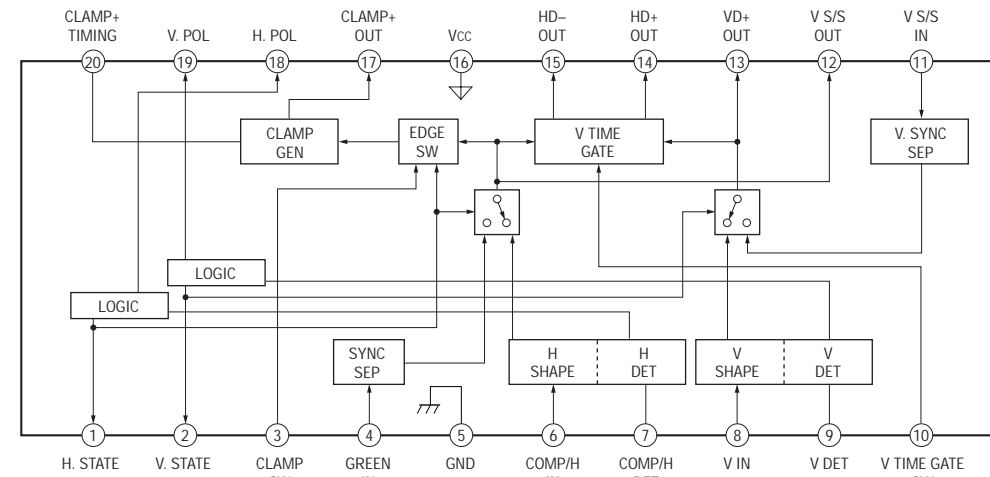
CXA1739S (IC1030)



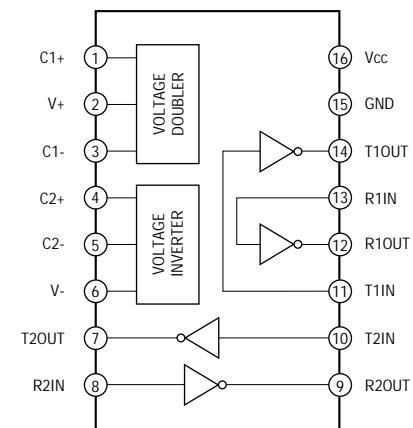
LM1881MX (IC1006)



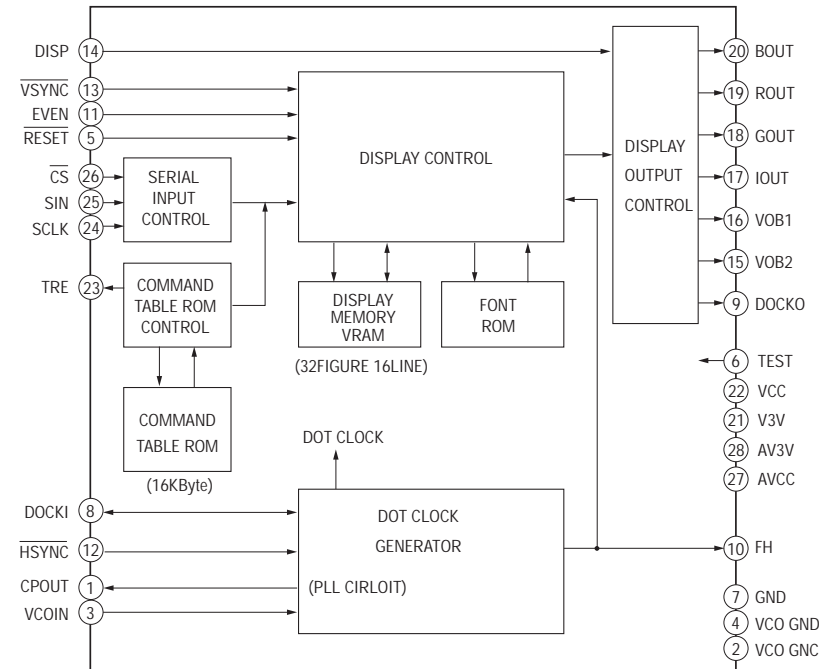
M52347FP-TE (IC101)



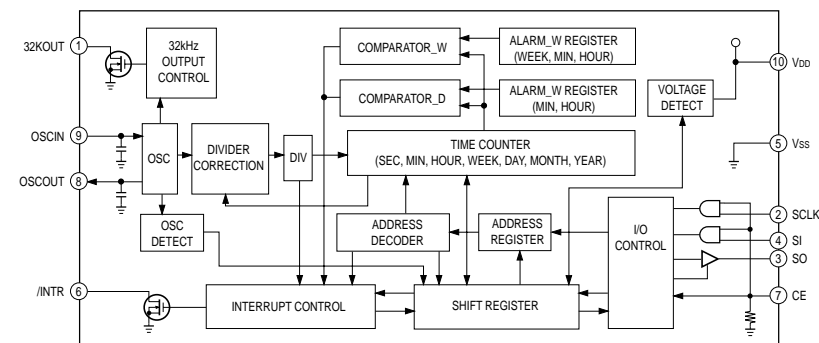
MAX202CSE-T (IC503)



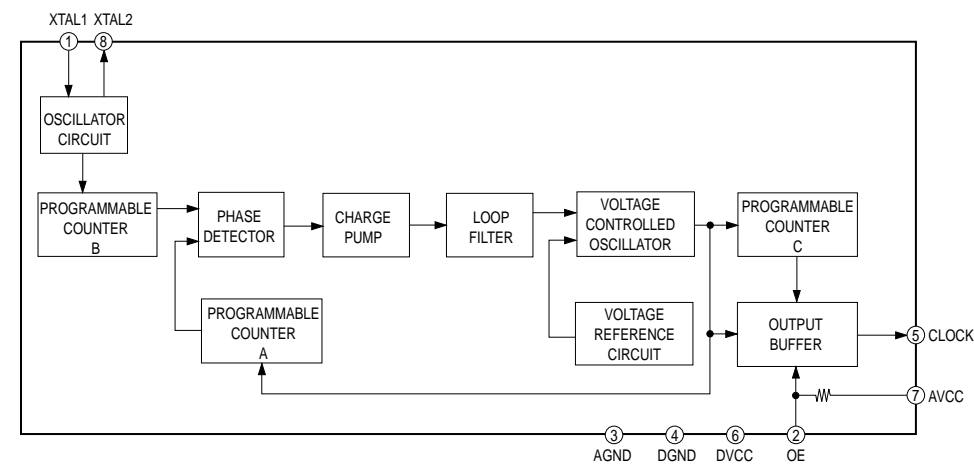
MB90096PF-G-182-BND-ER (IC214)



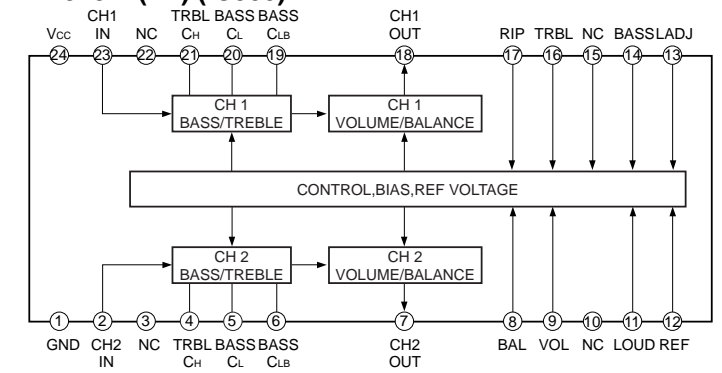
RS5C348A-E2 (IC504)



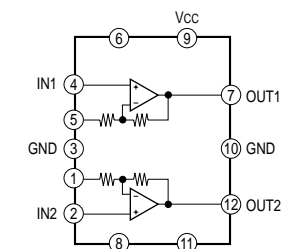
ST49C101ACF8-05-TR (IC218)



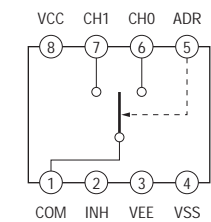
TA8184F(EL) (IC800)



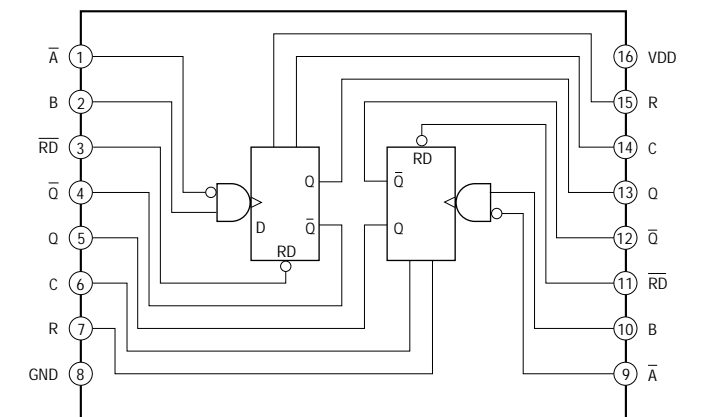
TA8216H (IC801)

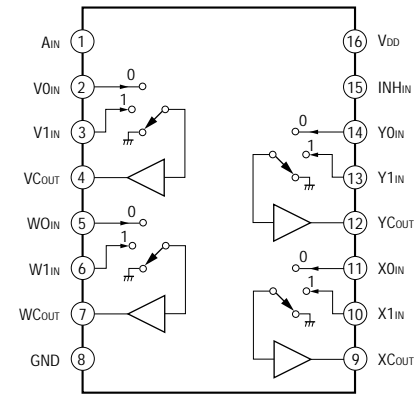
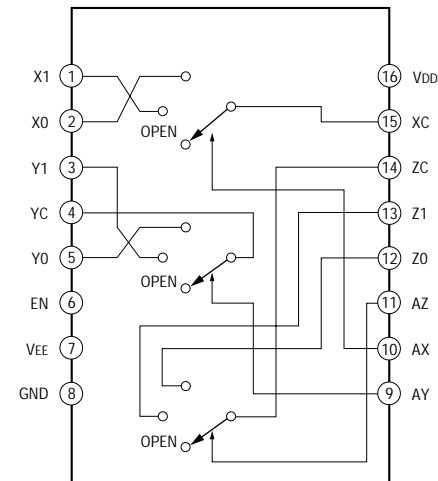
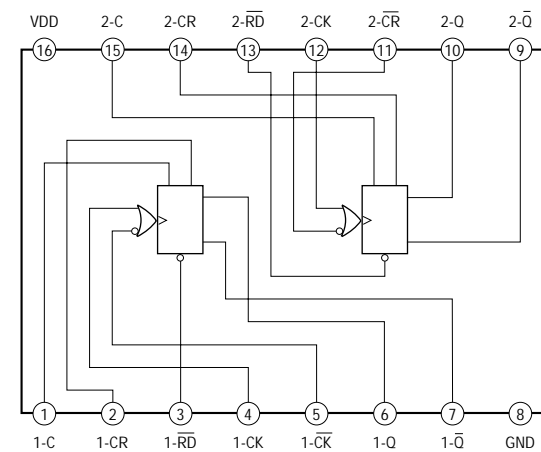
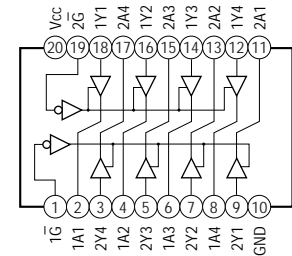
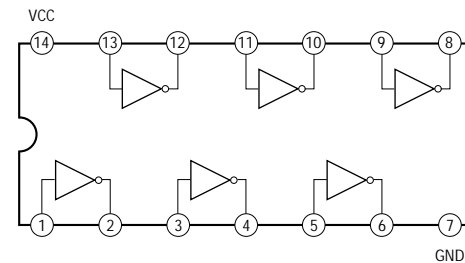
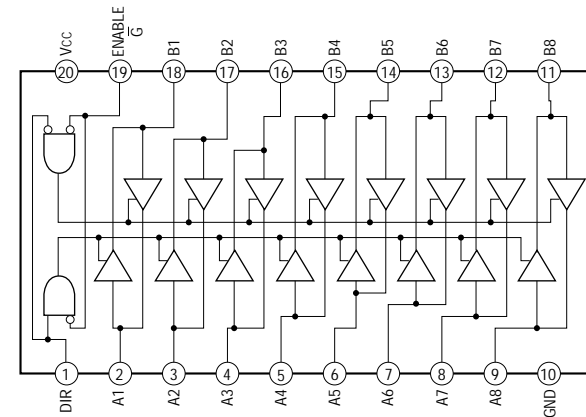
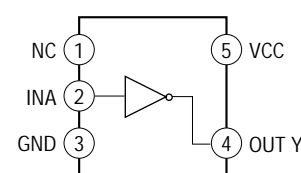
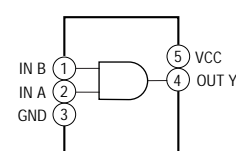
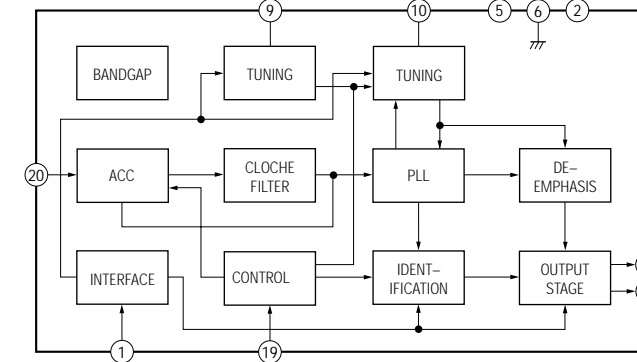
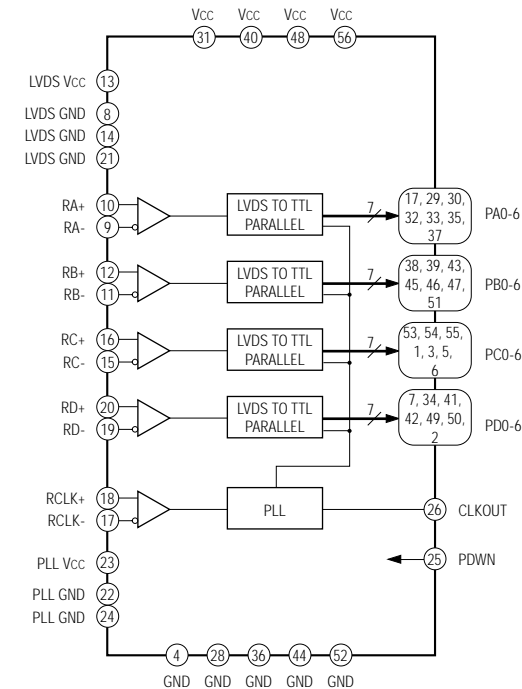
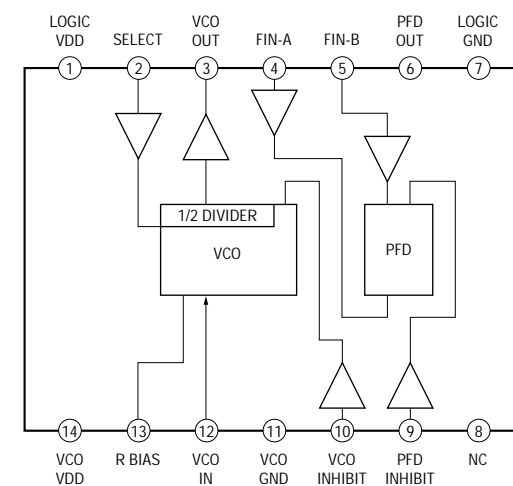
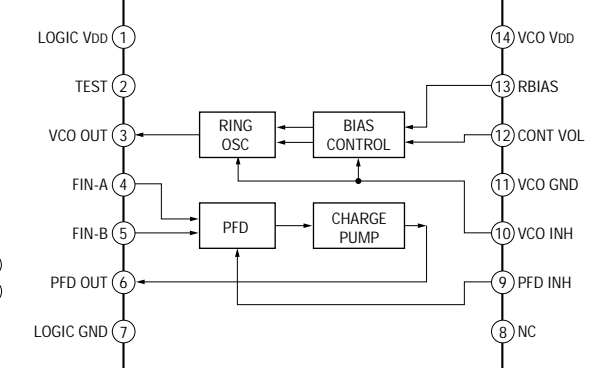
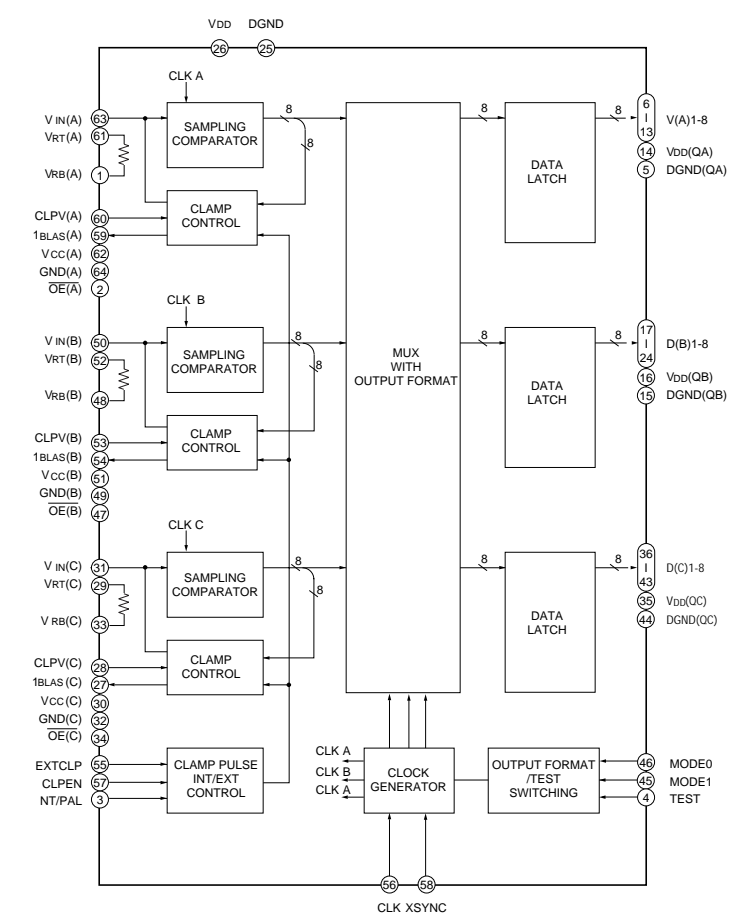


TC4W53FU(TE12R) (IC1004, IC1044)



TC74HC123AF(EL) (IC4008, IC4009, IC4011)



TC74HC157AF(EL) (IC4012)**TC74HC4053AF(EL)
(IC100, IC1002, IC1003, IC224, IC1031)****TC74HC4538AF(EL) (IC220)****TC74LCX244F(EL) (IC102)****TC74VHCT04AF(EL) (IC222)****TC74VHCT245AFT(EL)
(IC210, IC211, IC212, IC213, IC215)****TC7S04FU(TE85R) (IC223)****TC7S08FU(TE85R) (IC219)****TDA8395T/N3 (IC4000)****THC63LVDF84A-T (IC2001)****TLC2932IPW-E20 (IC1041)****TLC2933IPWR (IC1037)****TLC5733AIPM (IC1042)**

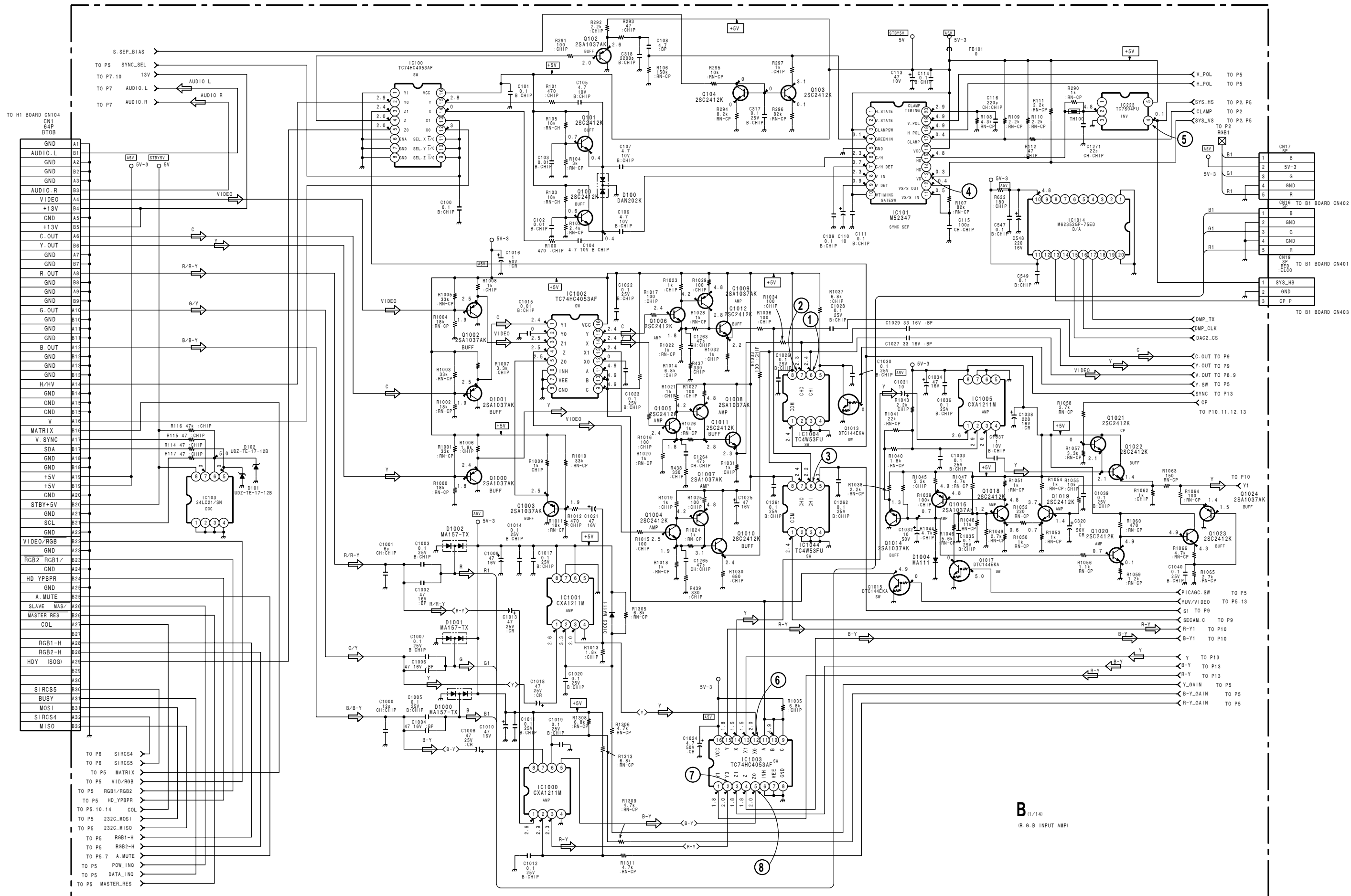
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2

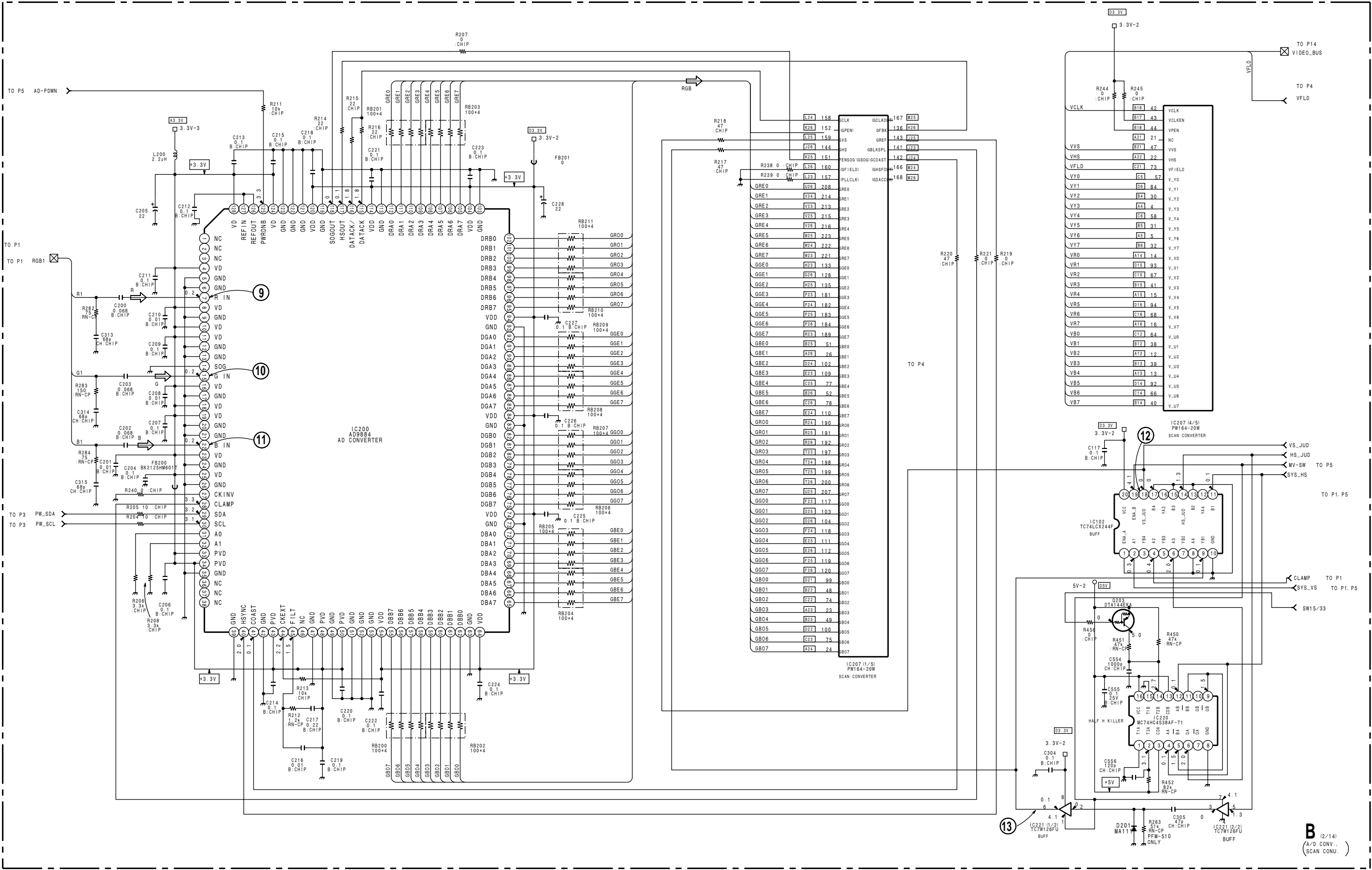
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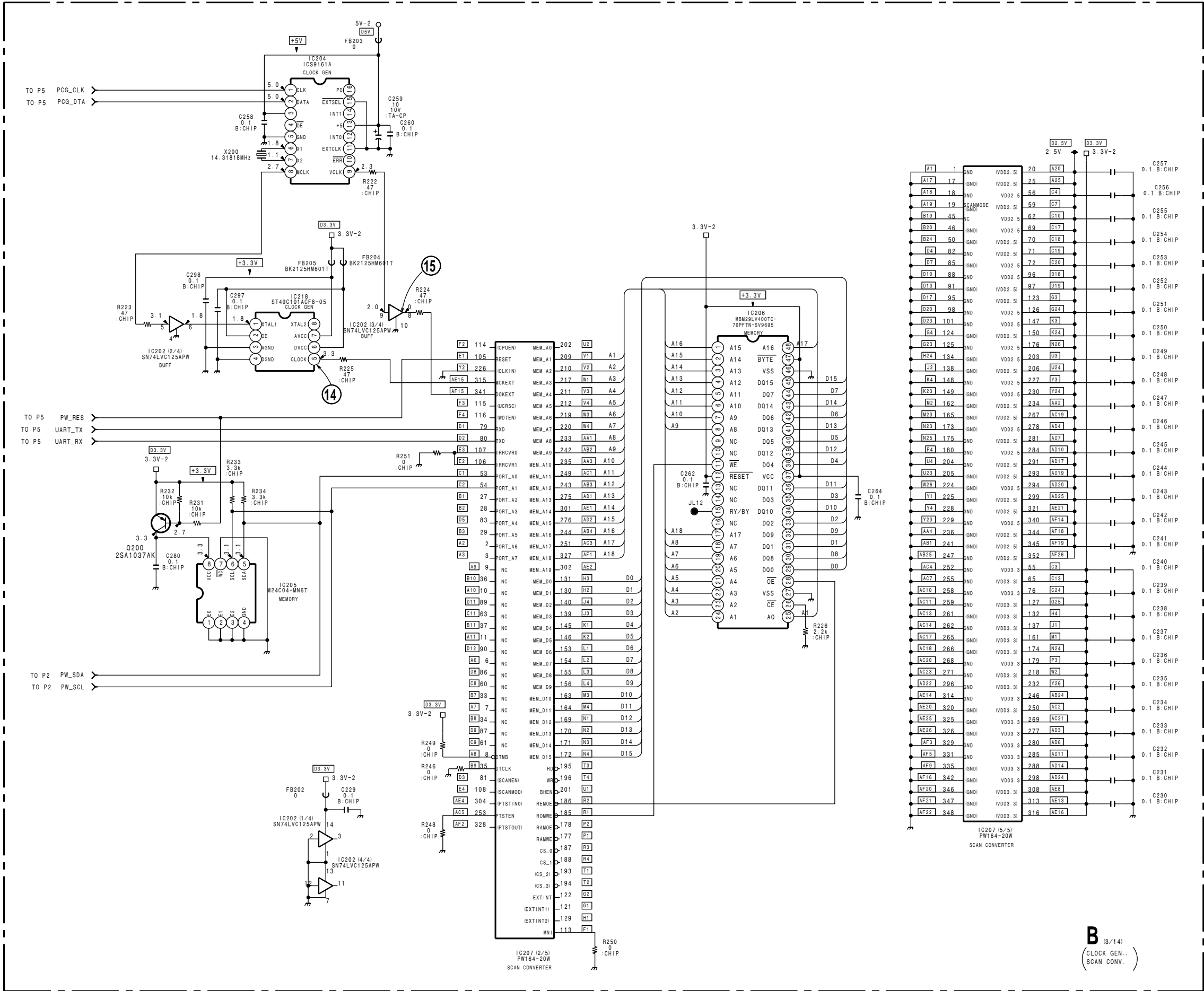
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5



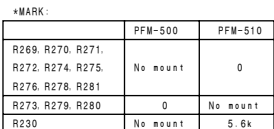
B (1/14)
(R. G. B INPUT AMP)





A1	1	IND	(VDD2.5)	20	A20			0.1 B:CHIP
A17	17	IND	(VDD2.5)	25	A25			0.1 B:CHIP
A18	18	IND	(VDD2.5)	56	C4			0.1 B:CHIP
A19	19	SCANMODE	(VDD2.5)	59	C7			0.1 B:CHIP
B19	45	IC	(VDD2.5)	62	C10			0.1 B:CHIP
B20	46	IND	(VDD2.5)	69	C17			0.1 B:CHIP
B24	50	IND	(VDD2.5)	70	C18			0.1 B:CHIP
D4	82	IND	(VDD2.5)	71	C19			0.1 B:CHIP
D7	85	IND	(VDD2.5)	72	C20			0.1 B:CHIP
D10	88	IND	(VDD2.5)	96	D18			0.1 B:CHIP
D13	91	IND	(VDD2.5)	97	D19			0.1 B:CHIP
D17	95	IND	(VDD2.5)	123	G3			0.1 B:CHIP
D20	98	IND	(VDD2.5)	126	G24			0.1 B:CHIP
D23	101	IND	(VDD2.5)	147	K3			0.1 B:CHIP
G4	124	IND	(VDD2.5)	150	K24			0.1 B:CHIP
G23	125	IND	(VDD2.5)	176	N26			0.1 B:CHIP
H24	134	IND	(VDD2.5)	203	U3			0.1 B:CHIP
J2	138	IND	(VDD2.5)	206	U24			0.1 B:CHIP
K4	148	IND	(VDD2.5)	227	Y3			0.1 B:CHIP
K23	149	IND	(VDD2.5)	230	Y24			0.1 B:CHIP
M2	162	IND	(VDD2.5)	234	AA2			0.1 B:CHIP
M23	165	IND	(VDD2.5)	267	AC19			0.1 B:CHIP
N23	173	IND	(VDD2.5)	278	AD4			0.1 B:CHIP
N25	175	IND	(VDD2.5)	281	AD7			0.1 B:CHIP
P4	180	IND	(VDD2.5)	284	AD10			0.1 B:CHIP
U4	204	IND	(VDD2.5)	291	AD17			0.1 B:CHIP
U23	205	IND	(VDD2.5)	293	AD19			0.1 B:CHIP
W26	224	IND	(VDD2.5)	294	AD20			0.1 B:CHIP
Y1	225	IND	(VDD2.5)	299	AD25			0.1 B:CHIP
Y4	228	IND	(VDD2.5)	321	AE21			0.1 B:CHIP
Y23	229	IND	(VDD2.5)	340	AF14			0.1 B:CHIP
AA4	236	IND	(VDD2.5)	344	AF18			0.1 B:CHIP
AB1	241	IND	(VDD2.5)	345	AF19			0.1 B:CHIP
AB25	247	IND	(VDD2.5)	352	AF26			0.1 B:CHIP
AC4	252	IND	(VDD3.3)	55	C3			0.1 B:CHIP
AC7	255	IND	(VDD3.3)	65	C13			0.1 B:CHIP
AC10	258	IND	(VDD3.3)	76	C24			0.1 B:CHIP
AC11	259	IND	(VDD3.3)	127	G25			0.1 B:CHIP
AC13	261	IND	(VDD3.3)	132	H4			0.1 B:CHIP
AC14	262	IND	(VDD3.3)	137	J1			0.1 B:CHIP
AC17	265	IND	(VDD3.3)	161	M1			0.1 B:CHIP
AC18	266	IND	(VDD3.3)	174	N24			0.1 B:CHIP
AC20	268	IND	(VDD3.3)	179	P3			0.1 B:CHIP
AC23	271	IND	(VDD3.3)	218	W2			0.1 B:CHIP
AD22	296	IND	(VDD3.3)	232	Y26			0.1 B:CHIP
AE14	314	IND	(VDD3.3)	246	AB24			0.1 B:CHIP
AE20	320	IND	(VDD3.3)	250	AC2			0.1 B:CHIP
AE25	325	IND	(VDD3.3)	269	AC21			0.1 B:CHIP
AE26	326	IND	(VDD3.3)	277	AD3			0.1 B:CHIP
AF3	329	IND	(VDD3.3)	280	AD6			0.1 B:CHIP
AF5	331	IND	(VDD3.3)	285	AD11			0.1 B:CHIP
AF9	335	IND	(VDD3.3)	288	AD14			0.1 B:CHIP
AF16	342	IND	(VDD3.3)	298	AD24			0.1 B:CHIP
AF20	346	IND	(VDD3.3)	308	AE8			0.1 B:CHIP
AF21	347	IND	(VDD3.3)	313	AE13			0.1 B:CHIP
AF22	348	IND	(VDD3.3)	316	AE16			0.1 B:CHIP

B (3/14)
(CLOCK GEN.,
SCAN CONV.)



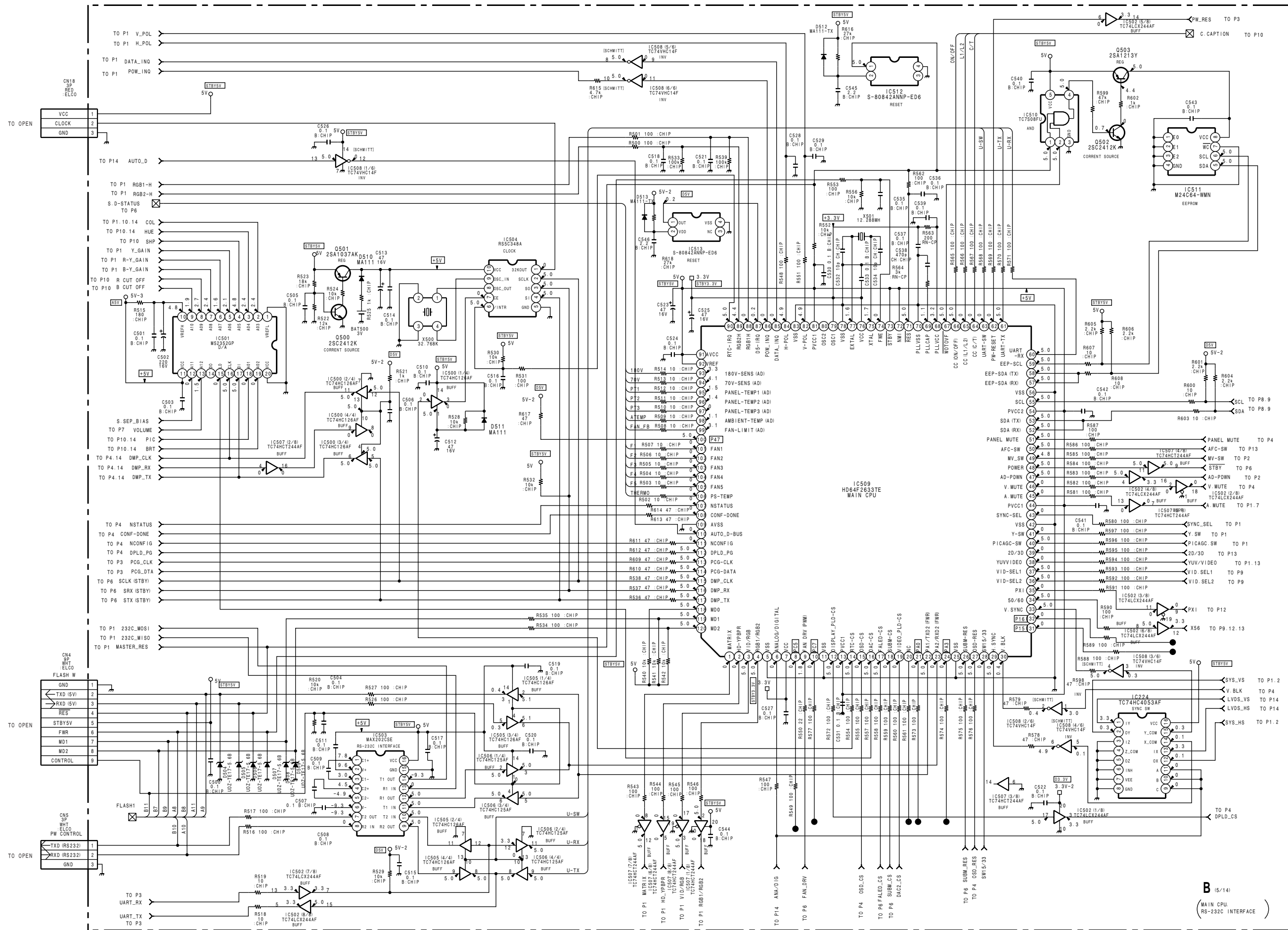
1

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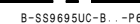
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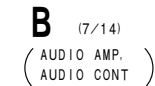
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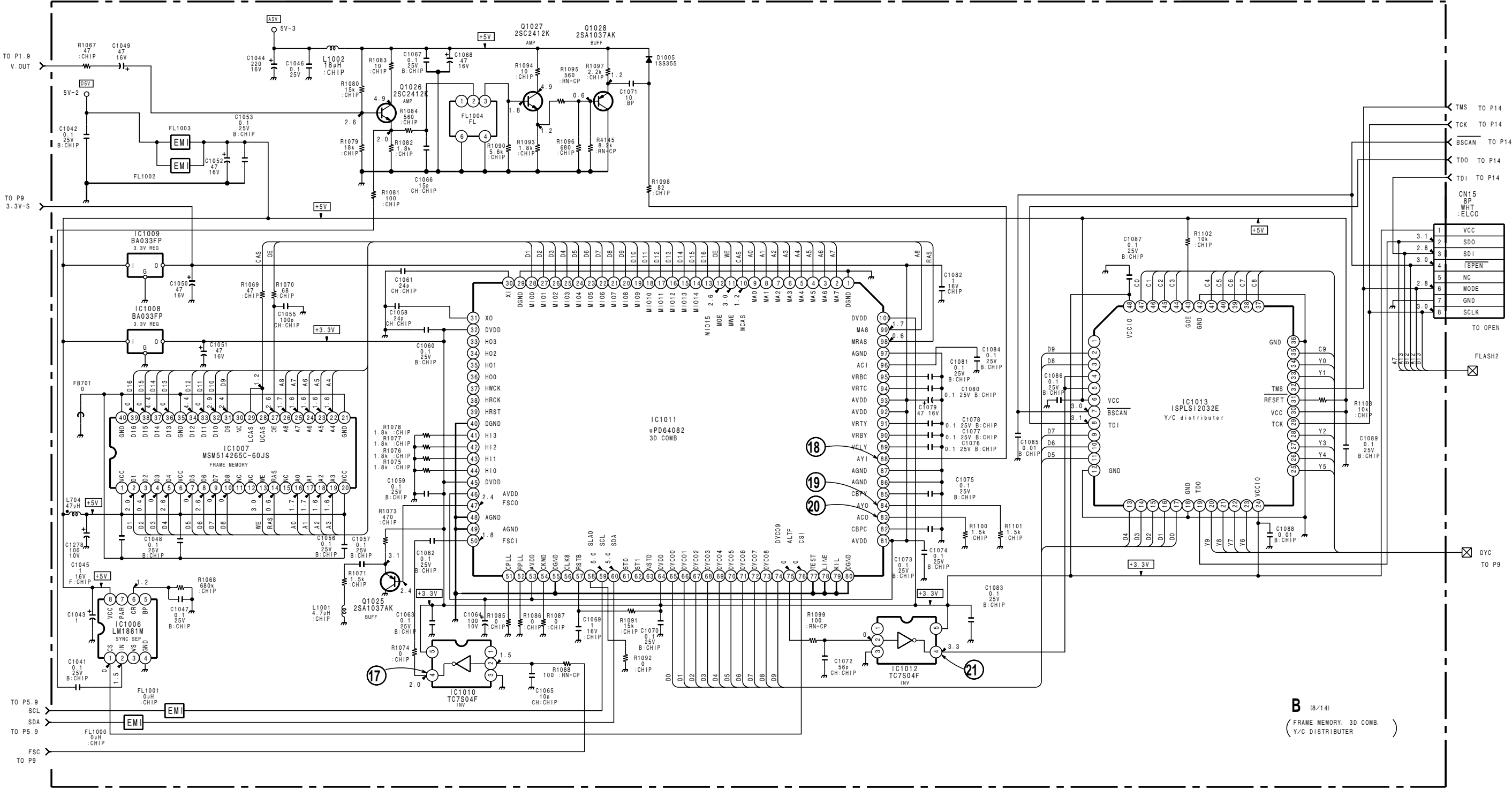
B (5/14)

(MAIN CPU
RS-232C INTERFACE)



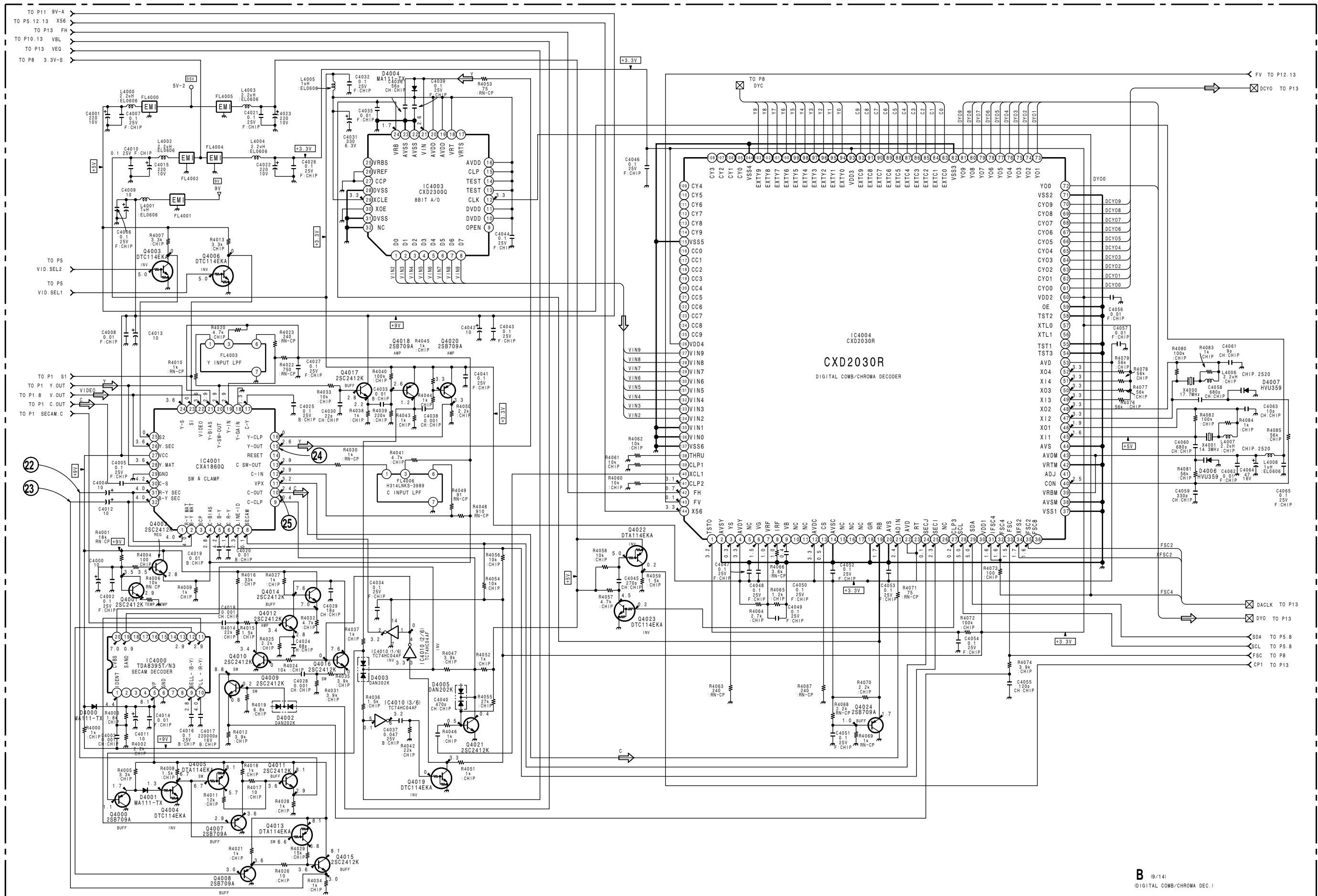


B-SS9695UC-B...-P7

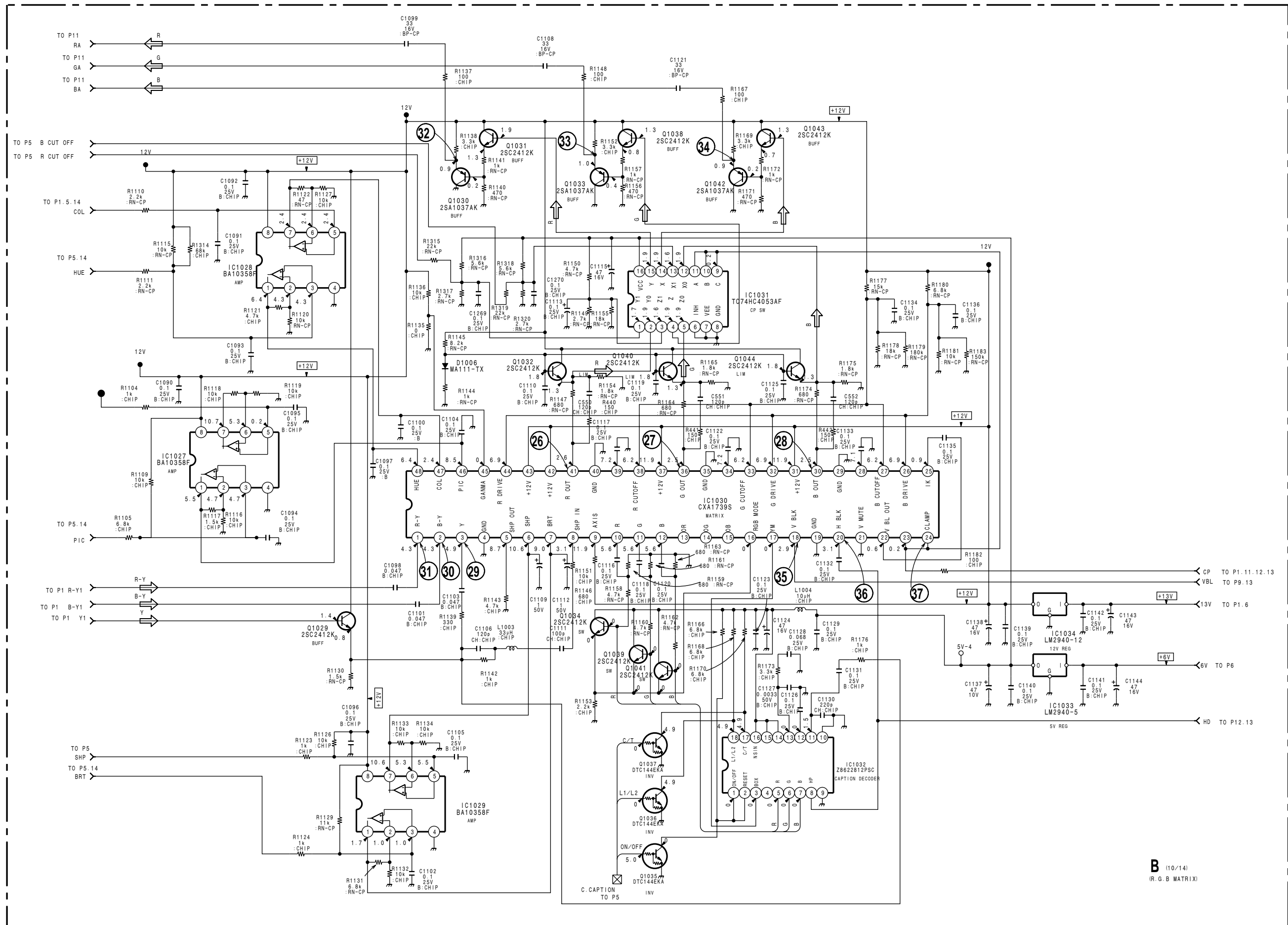


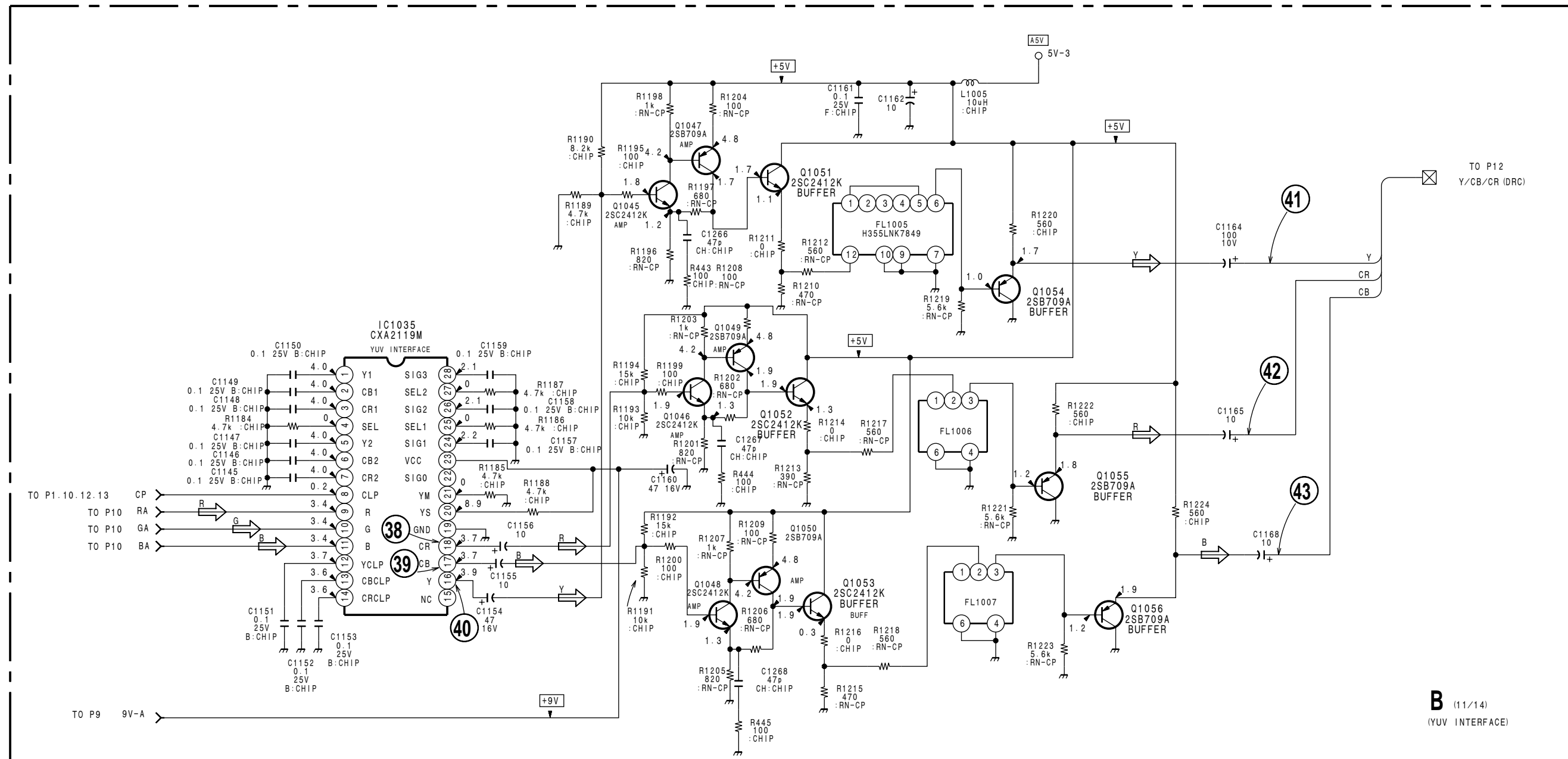
B (8/14)
(FRAME MEMORY, 3D COMB,
Y/C DISTRIBUTER)

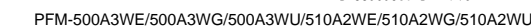
B-SS9695UC-B...-P8

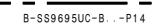


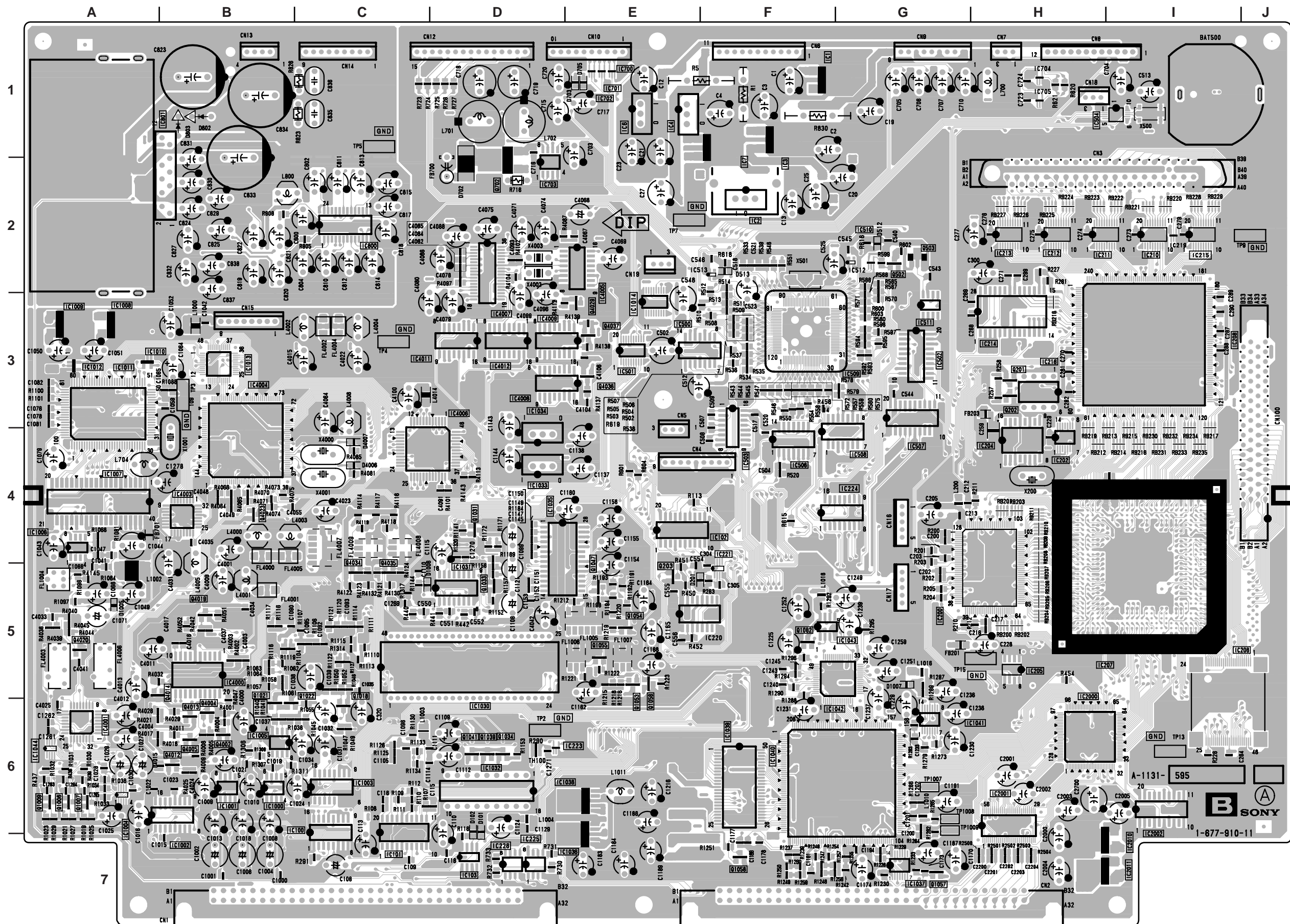
B (9/14)
(DIGITAL COMB/CHROMA DEC.)



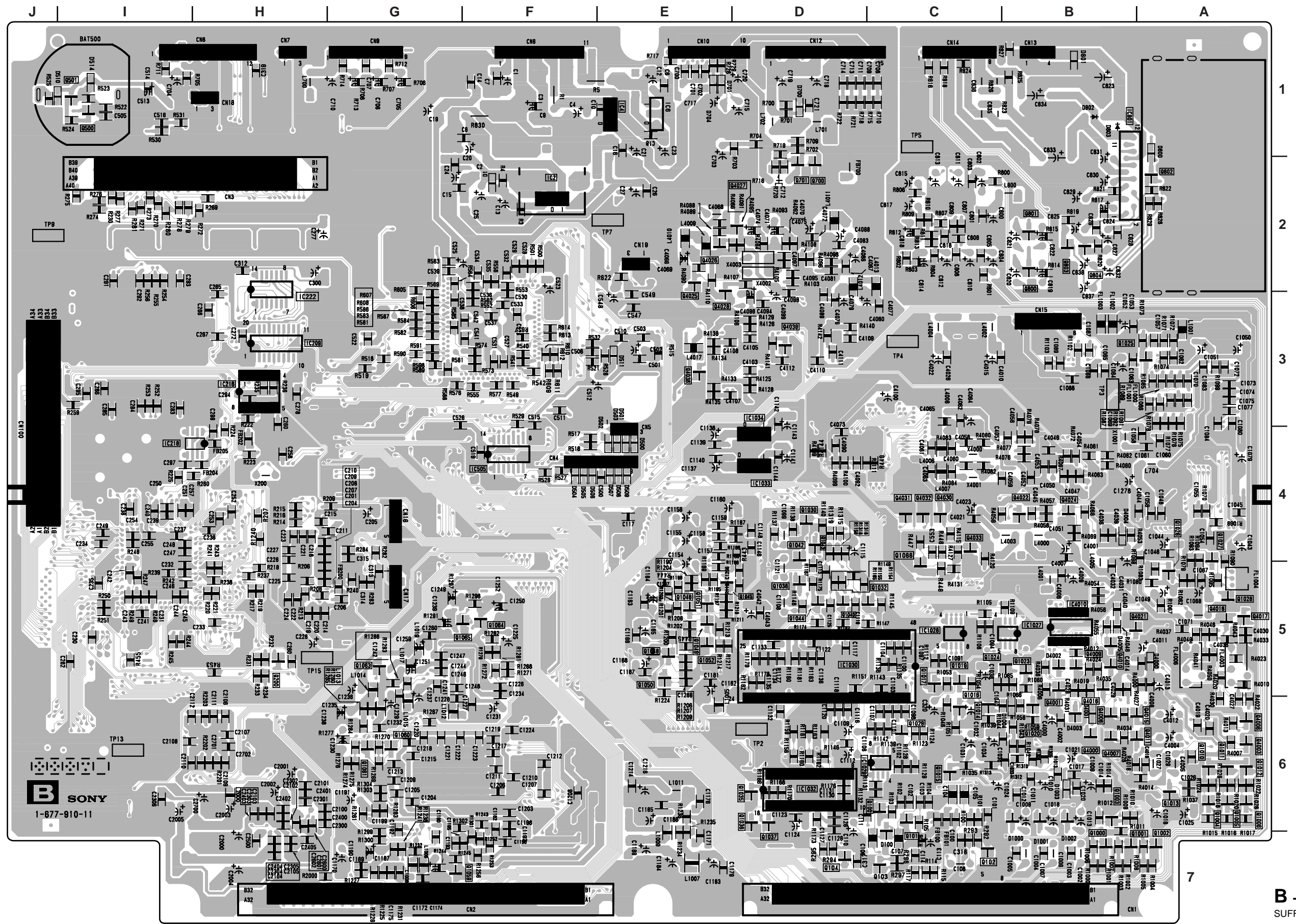








B -A SIDE-
SUFFIX: -11



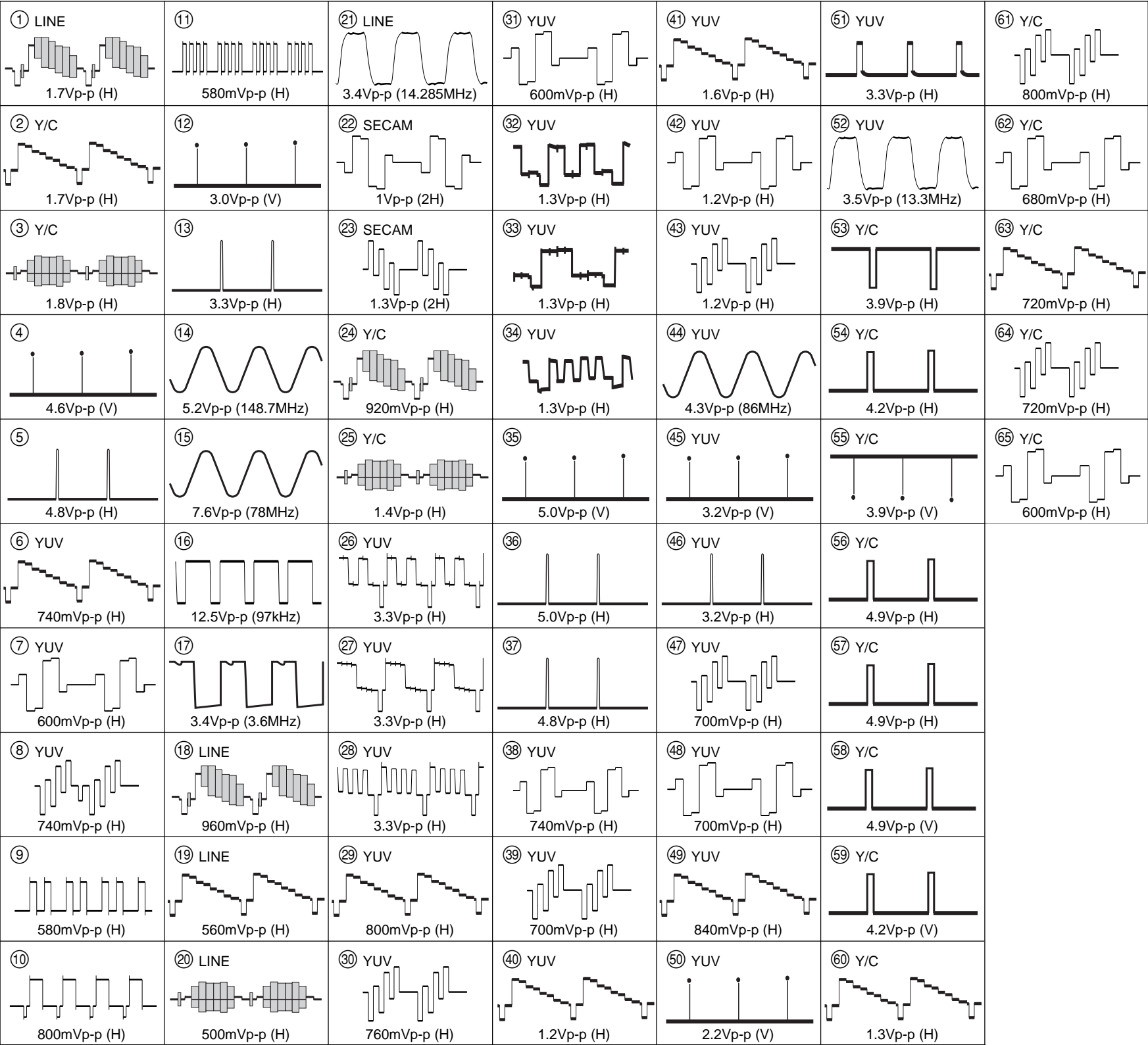
B -B SIDE-
SUFFIX: -11

B BOARD

*: B SIDE

IC1	F-1	IC1044	A-6	Q1057	G-7	D4002	* B-5
IC2	F-2	IC4000	B-5	Q1058	F-7	D4003	* B-6
IC3	F-1	IC4001	A-6	Q1059	* F-7	D4004	* B-4
IC4	E-1	IC4003	B-4	Q1060	* G-6	D4005	* B-5
IC6	E-1	IC4004	B-3	Q1061	* G-6	D4006	C-4
IC7	F-1	IC4005	E-2	Q1063	* G-5	D4007	C-4
IC100	C-6	IC4006	D-3	Q1064	* F-5		
IC102	E-4	IC4007	D-3	Q1066	* C-5	TP2	D-6
IC101	C-6	IC4008	D-3	Q1082	F-5	TP3	B-3
IC103	D-7	IC4009	D-3	Q1085	* G-5	TP4	C-3
IC200	H-4	IC4010	* B-5	Q4000	* B-6	TP5	C-1
IC202	H-3	IC4011	D-3	Q4001	* B-5	TP7	E-2
IC204	H-3	IC4012	D-3	Q4002	B-6	TP9	J-2
IC205	H-5			Q4003	* A-6	TP13	I-6
IC206	I-5	Q100	* C-6	Q4004	B-6	TP15	H-5
IC207	I-4	Q101	* C-7	Q4006	* A-6	TP1007	G-6
IC208	H-3	Q102	* C-7	Q4007	* B-6	TP1008	G-6
IC209	* H-3	Q103	* C-7	Q4008	* B-6	TP1009	G-6
IC210	I-2	Q104	* D-7	Q4009	* B-5		
IC211	H-2	Q200	* H-5	Q4005	B-6		
IC212	H-2	Q201	H-3	Q4010	* B-5		
IC213	H-2	Q202	H-3	Q4012	B-6		
IC214	H-3	Q203	E-5	Q4011	* A-6		
IC215	I-2	Q500	* I-1				
IC216	H-3	Q501	* I-1	Q4013	B-6		
IC218	* H-4	Q502	G-2	Q4014	B-5		
IC219	I-2	Q503	G-2	Q4015	* A-6		
IC220	E-5	Q700	* D-2	Q4016	* B-5		
IC221	F-4	Q701	* D-2	Q4017	* A-5		
IC222	* H-2	Q702	D-2	Q4018	* A-5		
IC223	D-6	Q800	* B-2	Q4019	B-5		
IC224	F-4	Q801	* B-2	Q4020	A-5		
IC225	D-7	Q802	* A-2	Q4021	* B-5		
IC226	D-7	Q803	* B-2	Q4022	* B-4		
IC500	E-3	Q804	* B-2	Q4023	B-4		
IC502	G-3	Q1000	* B-6	Q4024	* B-4		
IC501	E-3	Q1001	* B-7	Q4025	* E-3		
IC503	F-3	Q1002	* A-7	Q4026	* E-2		
IC504	I-1	Q1003	* B-6	Q4027	* D-2		
IC505	* F-4	Q1004	* A-6	Q4028	* E-3		
IC506	F-3	Q1005	* A-6	Q4029	E-3		
IC507	G-3	Q1006	* A-6	Q4030	* C-4		
IC508	F-4	Q1007	A-6	Q4031	* C-4		
IC509	F-3	Q1008	A-6	Q4032	* C-4		
IC510	G-2	Q1009	A-6	Q4033	* C-4		
IC511	G-3	Q1010	* A-6	Q4034	C-5		
IC512	G-2	Q1011	* A-6	Q4035	C-5		
IC700	E-1	Q1012	* A-6	Q4036	E-3		
IC701	E-1	Q1013	* A-6	Q4037	E-3		
IC702	E-1	Q1014	* C-6	Q4038	* E-3		
IC703	D-2	Q1015	* C-6	Q4039	* D-3		
IC704	H-1	Q1016	* C-5				
IC705	H-1	Q1017	* C-5	D1	* F-2		
IC800	C-2	Q1018	C-5	D100	* C-7		
IC801	B-1	Q1019	* C-5	D101	D-6		
IC1000	B-6	Q1020	* B-6	D102	D-6		
IC1001	B-6	Q1021	B-5	D201	E-5		
IC1002	B-7	Q1023	* B-5	D500	* E-4		
IC1003	C-6	Q1024	* B-5	D501	* E-4		
IC1004	A-6	Q1025	* B-3	D502	* E-4		
IC1005	B-6	Q1022	C-6	D503	* E-4		
IC1006	A-4	Q1026	* A-5	D504	* F-4		
IC1007	A-4	Q1027	* A-4	D505	* F-4		
IC1008	A-3	Q1028	* A-5	D506	* F-4		
IC1009	A-3	Q1029	* C-6	D507	* E-4		
IC1010	A-3	Q1030	* D-4	D508	* E-4		
IC1011	A-3	Q1031	D-4	D509	* E-4		
IC1012	A-3	Q1032	* D-5	D511	* E-3		
IC1013	B-3	Q1033	D-5	D512	G-2		
IC1014	E-3	Q1034	D-6	D513	F-2		
IC2000	H-6	Q1035	* D-6	D514	* I-1		
IC2001	H-6	Q1036	* D-6	D700	* D-1		
IC2002	I-6	Q1037	* D-6	D701	* E-1		
IC2010	H-7	Q1038	* D-5	D702	C-2		
IC2011	H-7	Q1039	D-6	D703	E-1		
IC1027	* B-5	Q1040	* D-5	D704	* E-1		
IC1028	* C-5	Q1041	D-6	D705	E-1		
IC1029	* C-6	Q1042	* D-4	D800	* A-1		
IC1030	D-5	Q1043	* D-4	D801	* B-1		
IC1031	D-4	Q1044	* D-5	D802	* B-1		
IC1032	D-6	Q1045	* E-5	D802	B-1		
IC1033	D-4	Q1046	* E-5	D803	B-1		
IC1034	D-4	Q1047	E-5	D1000	* B-7		
IC1035	D-4	Q1048	* E-5	D1001	* B-7		
IC1036	E-6	Q1049	* E-5	D1002	* B-7		
IC1037	G-7	Q1050	* E-5	D1003	* B-6		
IC1038	E-6	Q1051	* E-5	D1004	* B-6		
IC1039	F-6	Q1052	* E-5	D1005	A-5		
IC1040	F-6	Q1053	E-5	D1006	C-5		
IC1041	G-5	Q1054	E-5	D1007	G-5		
IC1042	F-5	Q1055	E-5	D4000	* A-5		
IC1043	F-5	Q1056	E-5	D4001	* B-6		

B Board Waveforms

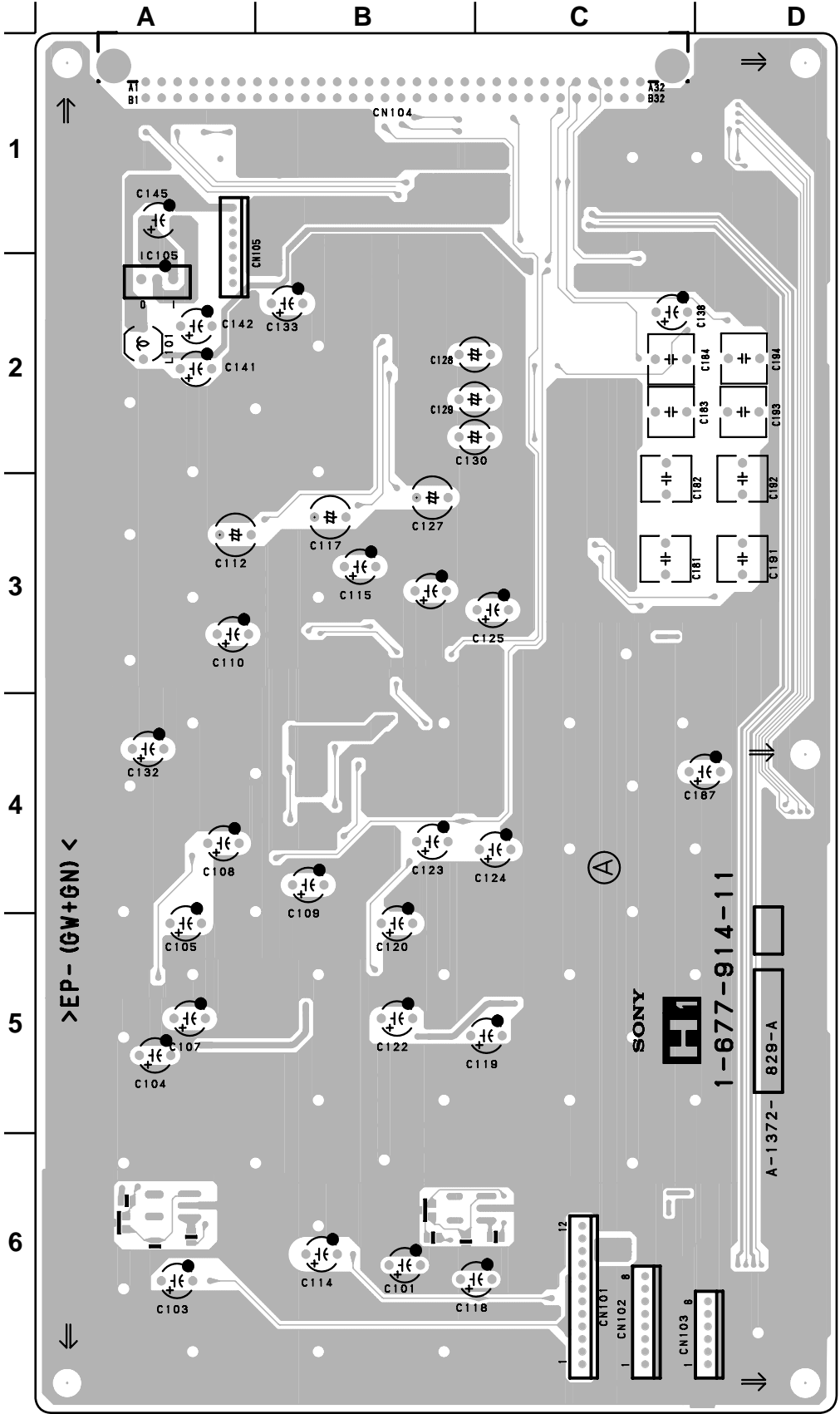


H1 BOARD
*: B SIDE

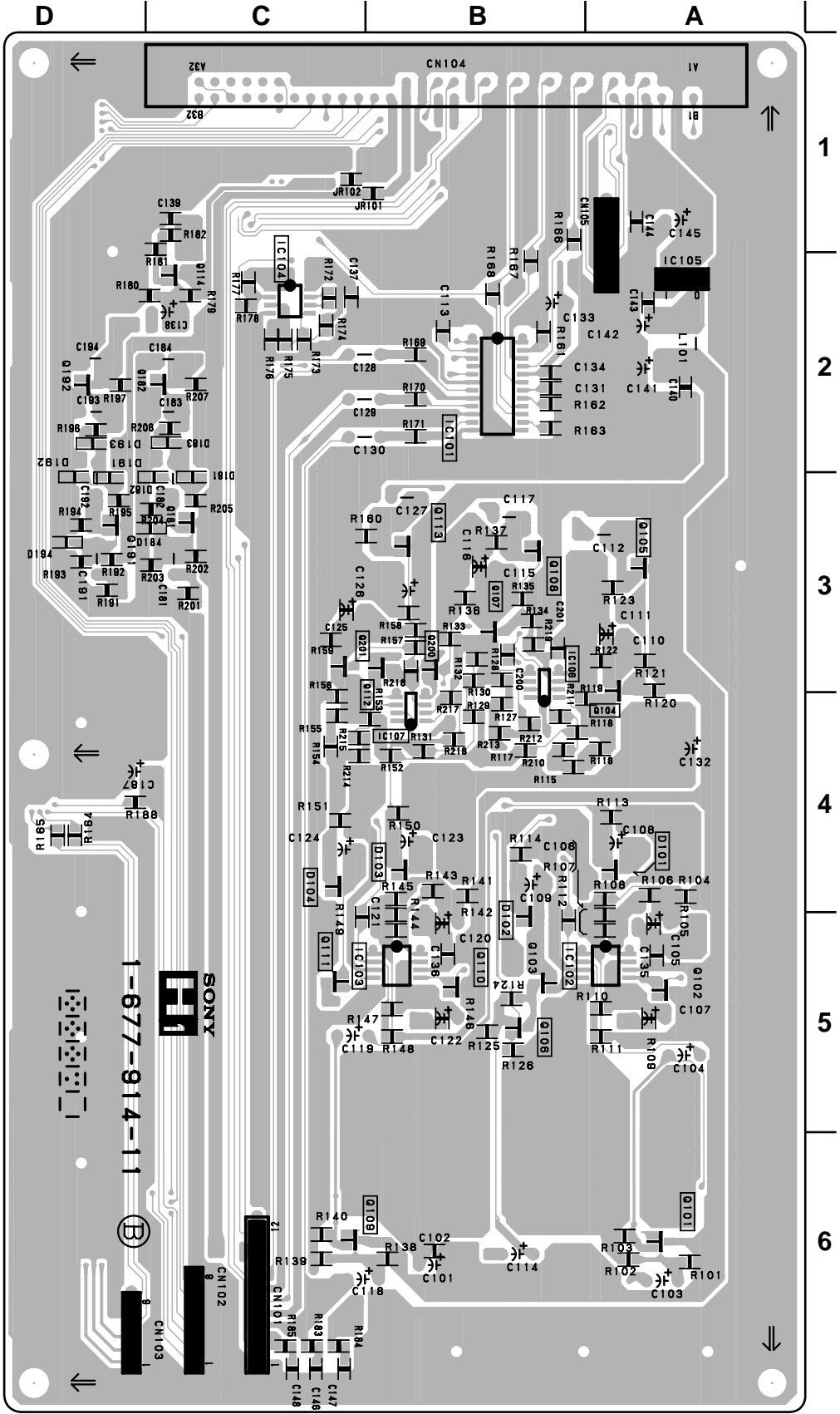
D101 * A-4
D102 * B-5
D103 * B-4
D104 * C-4
D181 * C-3
D182 * C-3
D184 * C-3
D191 * D-2
D192 * D-2
D193 * D-2
D194 * D-3

IC101 * B-2
IC102 * A-5
IC103 * B-5
IC104 * C-2
IC105 * A-2
IC106 * B-3
IC107 * B-4

Q101 * A-6
Q102 * A-5
Q103 * B-5
Q104 * A-4
Q105 * A-3
Q106 * B-5
Q107 * B-3
Q108 * B-3
Q109 * C-6
Q110 * B-5
Q111 * C-5
Q112 * B-3
Q113 * B-3
Q114 * C-2
Q181 * C-3
Q182 * C-2
Q191 * D-3
Q192 * D-2
Q200 * B-3
Q201 * C-3



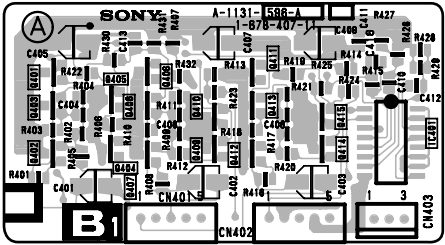
H1 -A SIDE-
SUFFIX: -11



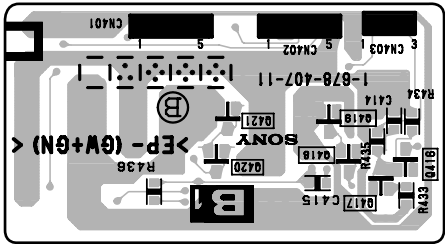
H1 -B SIDE-
SUFFIX: -11



1

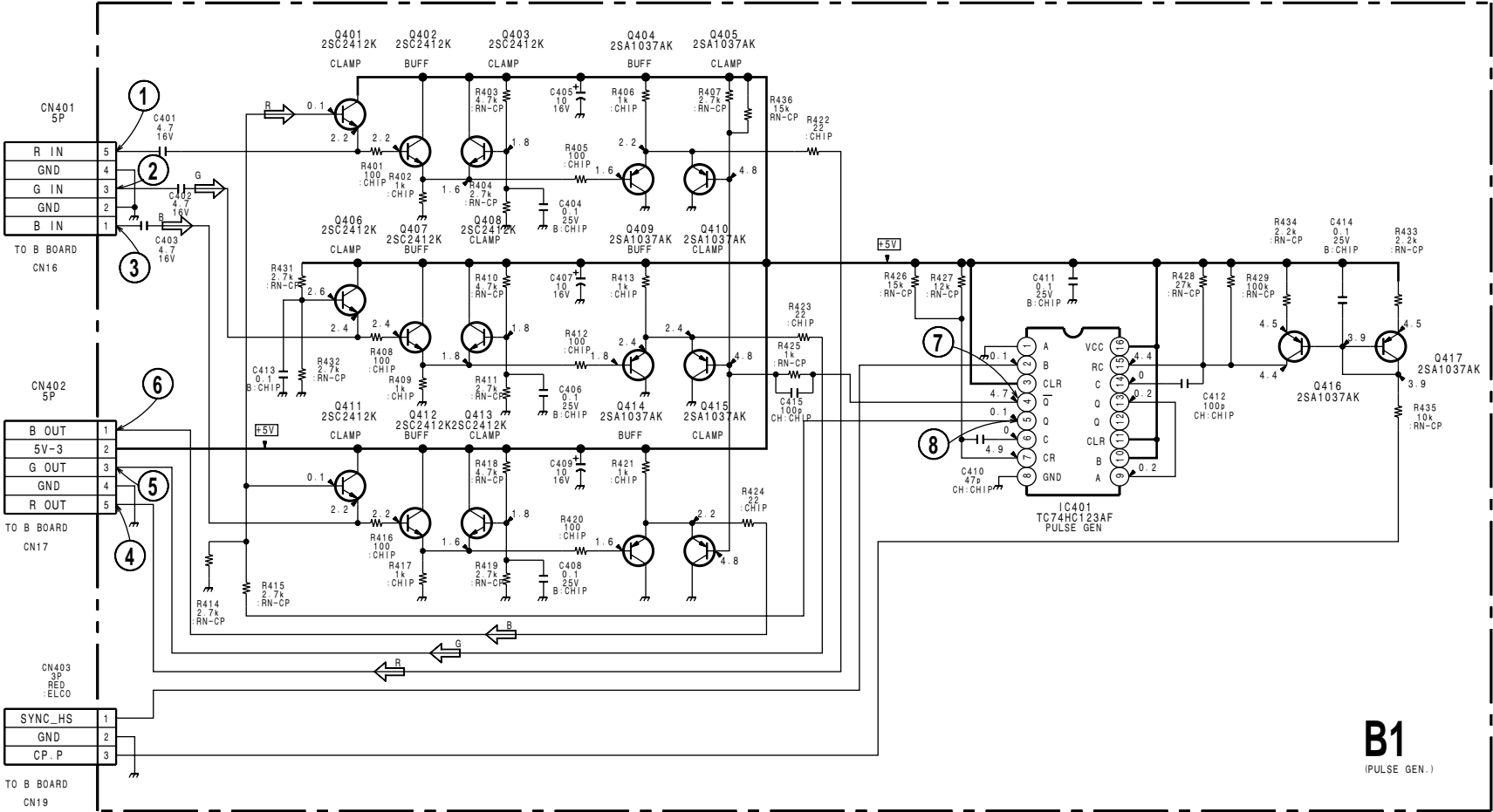


B1 -A SIDE-
SUFFIX: -11



B1 -B SIDE-
SUFFIX: -11

3

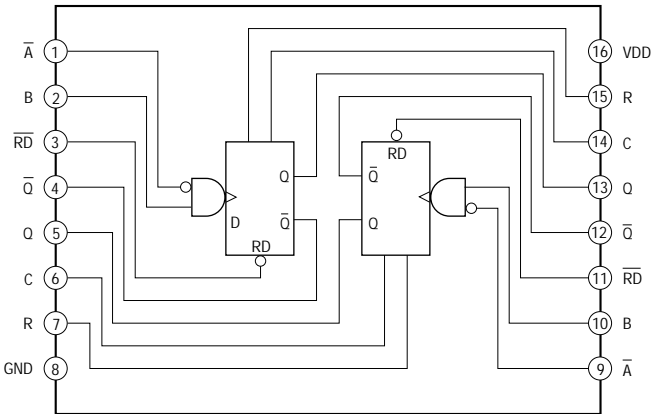


B1
(PULSE GEN.)

B-SS9695UC-B1.-P1

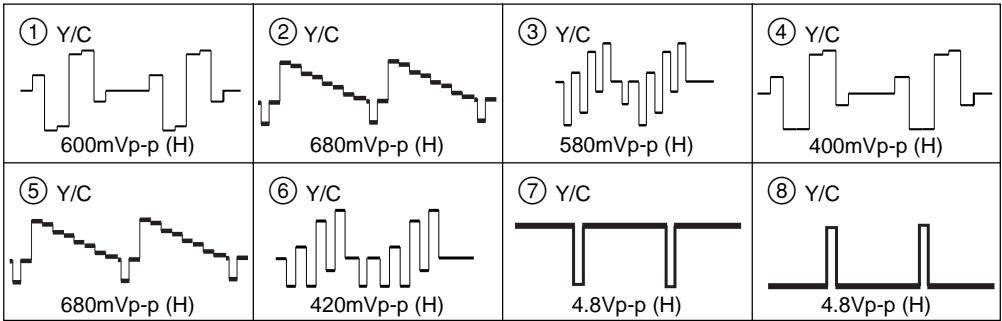
4

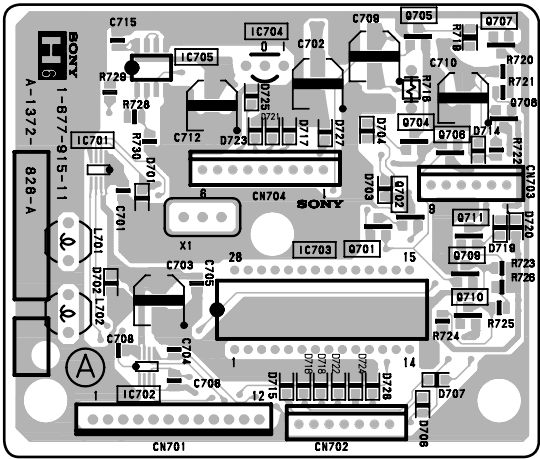
TC74HC123AF(EL) (IC401)



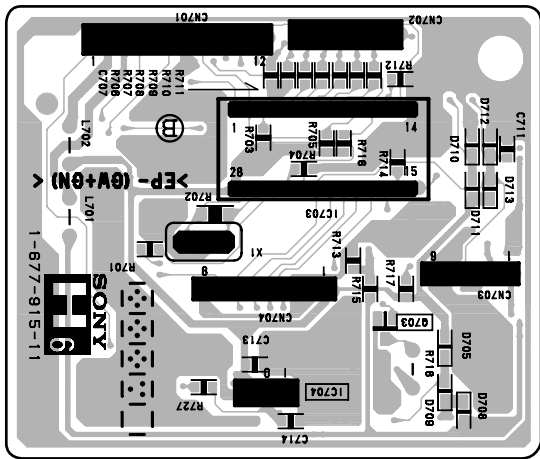
5

B1 Board Waveforms

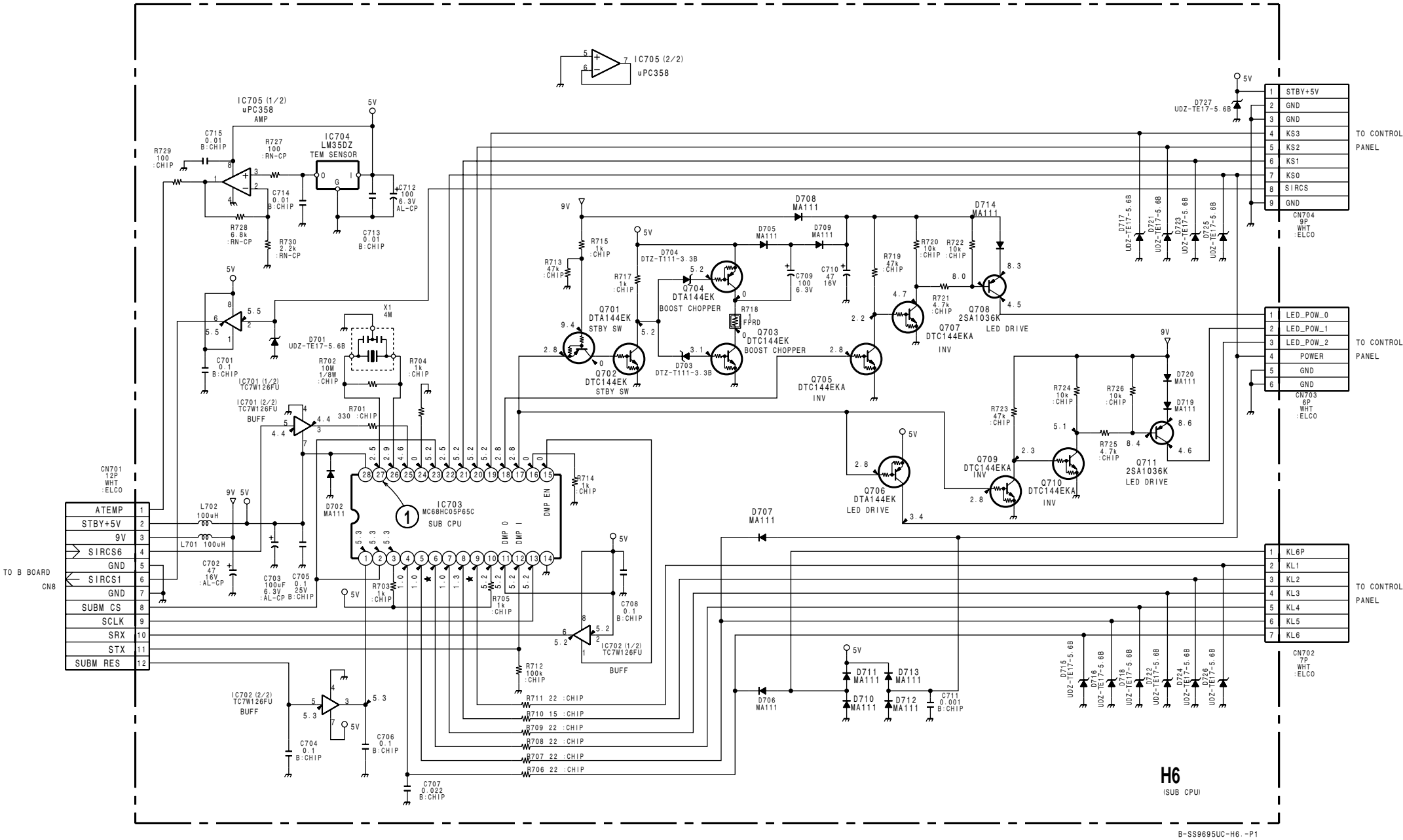




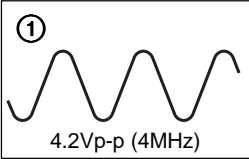
H6 -A SIDE-
SUFFIX: -11



H6 -B SIDE-
SUFFIX: -11



H6 Board Waveform



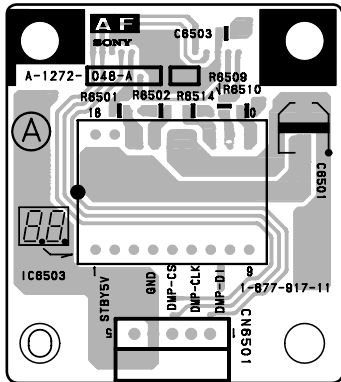
1

2

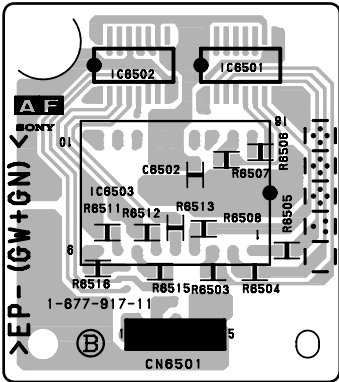
3

4

5



AF -A SIDE-
SUFFIX: -11



AF -B SIDE-
SUFFIX: -11

LB-602MA2 (IC6503)

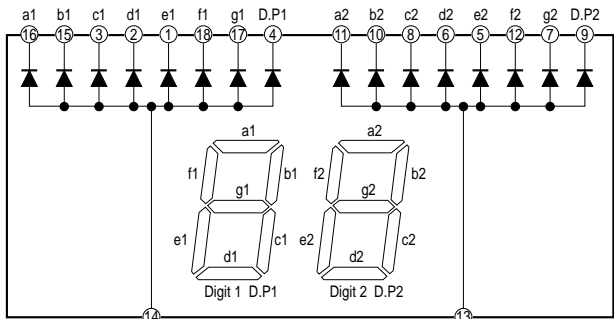
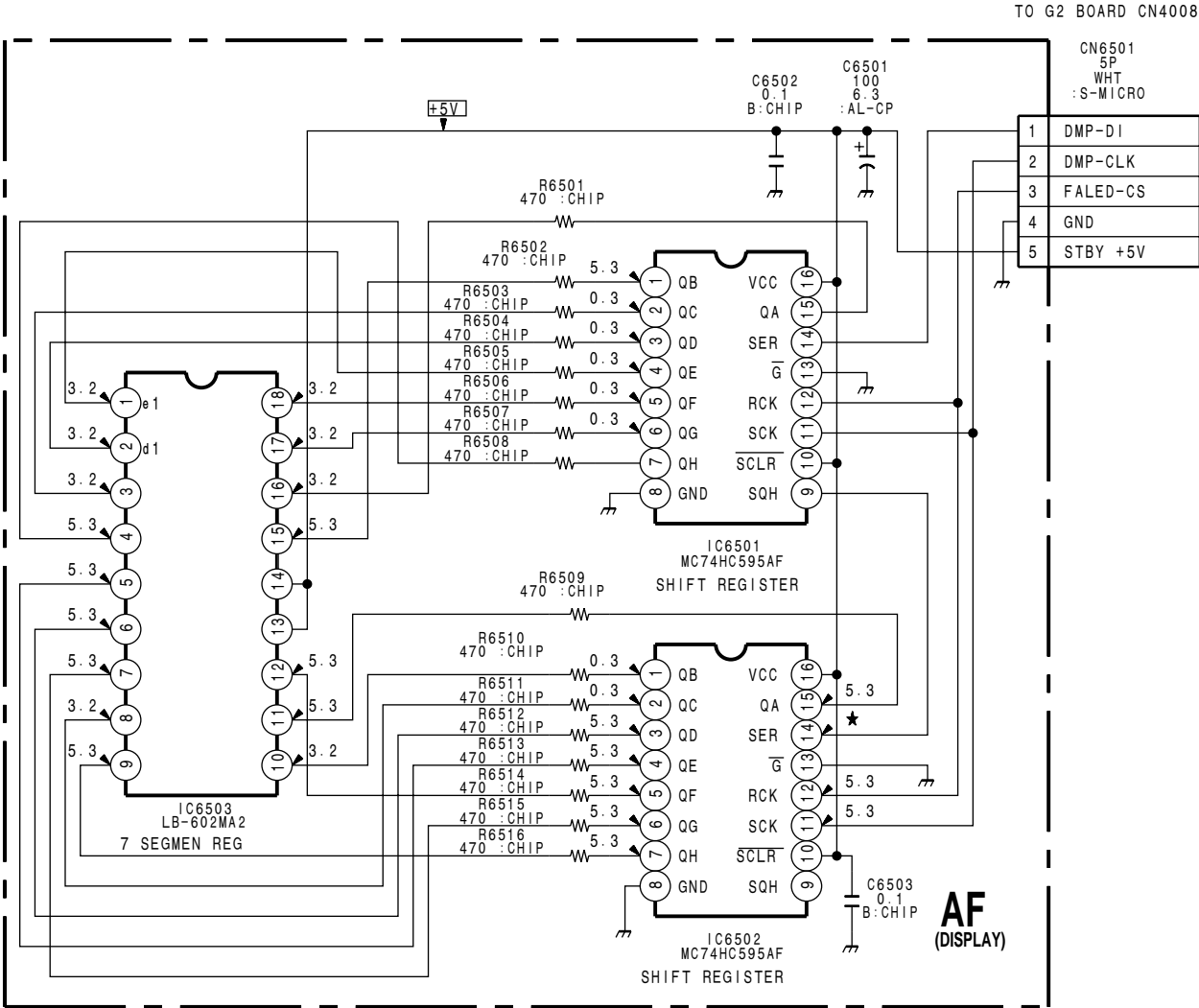
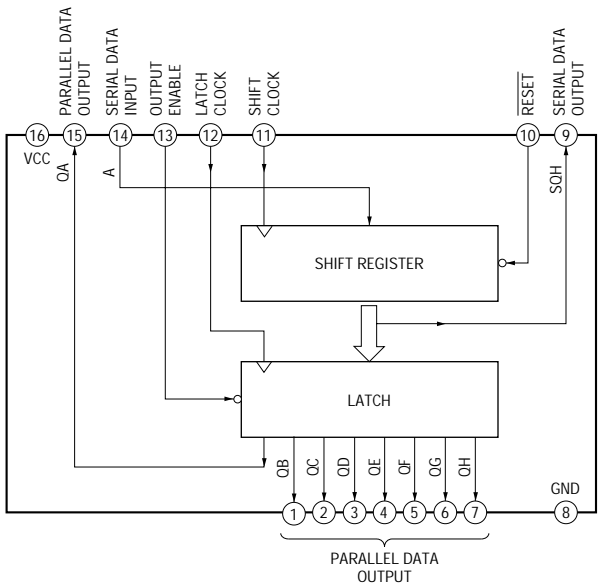


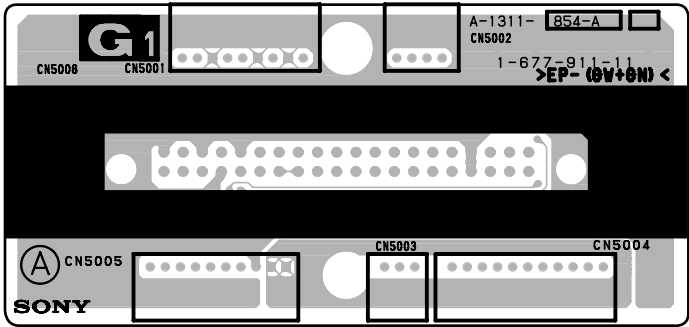
Fig. 1 COM

Fig. 2 COM

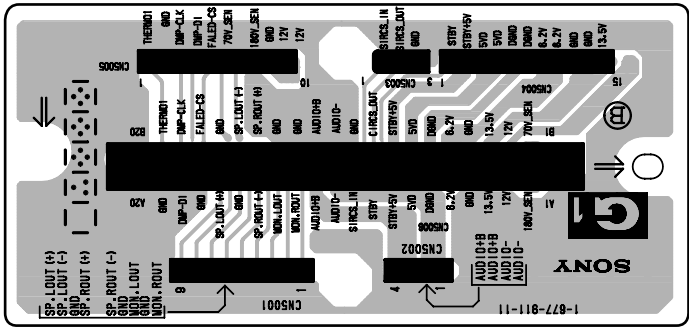
MC74HC595AF-T2 (IC6501, IC6502)



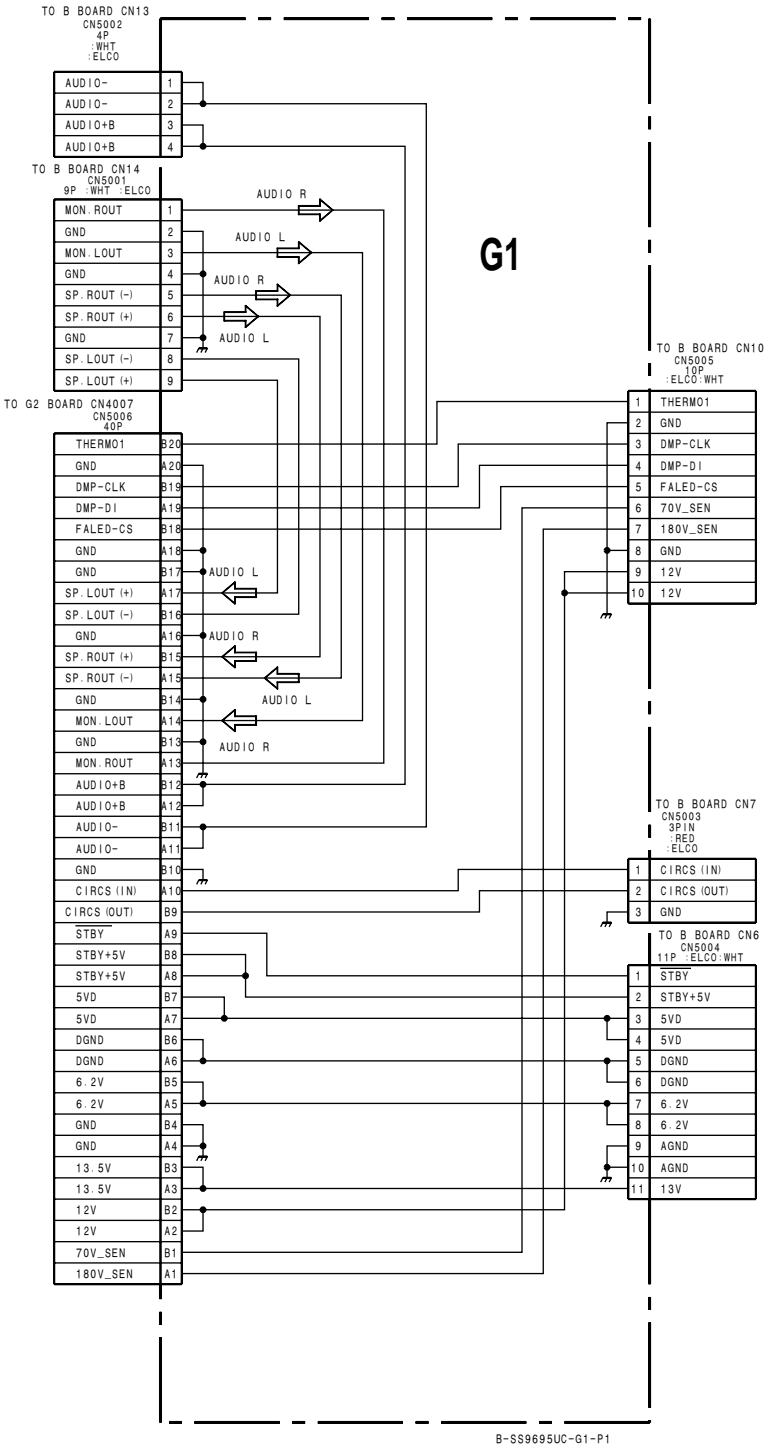
B-SS9695UC-AF-P1



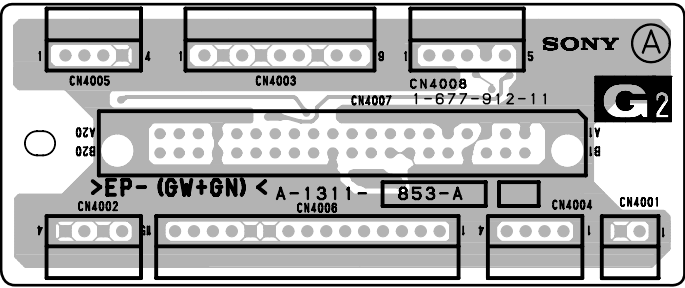
G1 -A SIDE-
SUFFIX: -11



G1 -B SIDE-
SUFFIX: -11

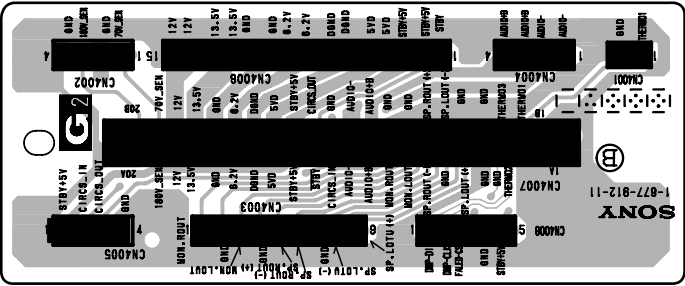


1



G2 -A SIDE-
SUFFIX: -11

2

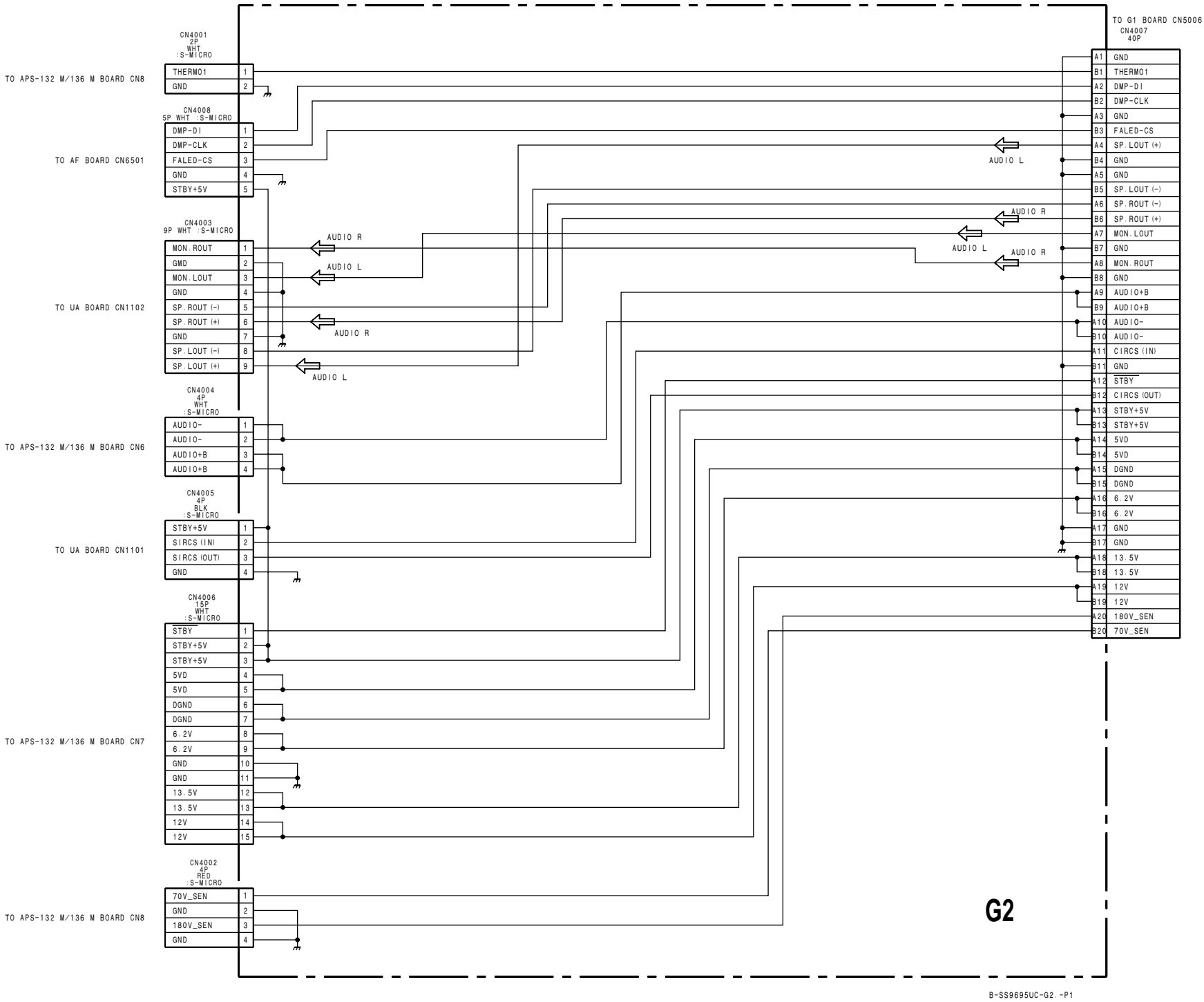


G2 -B SIDE-
SUFFIX: -11

3

4

5



G2

B-SS9695UC-G2. -P1

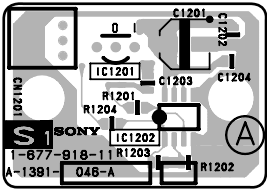
1

2

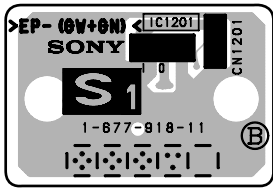
3

4

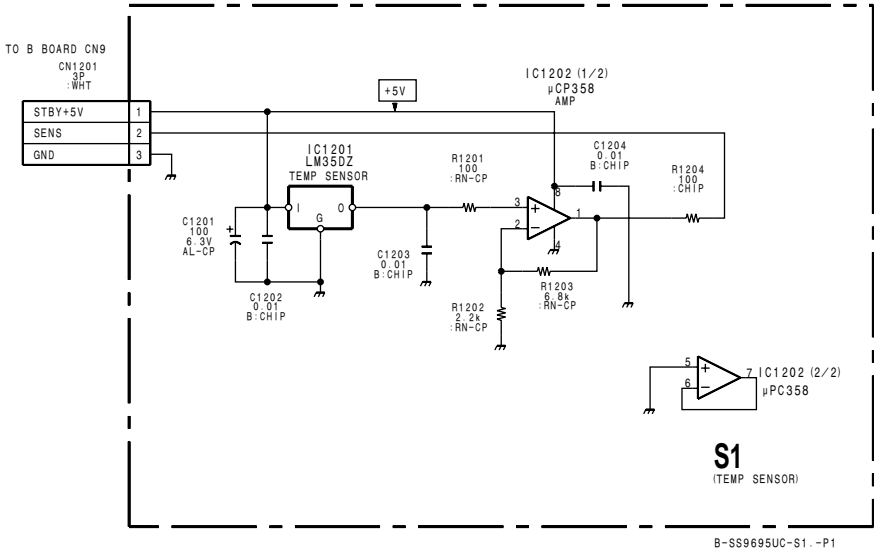
5



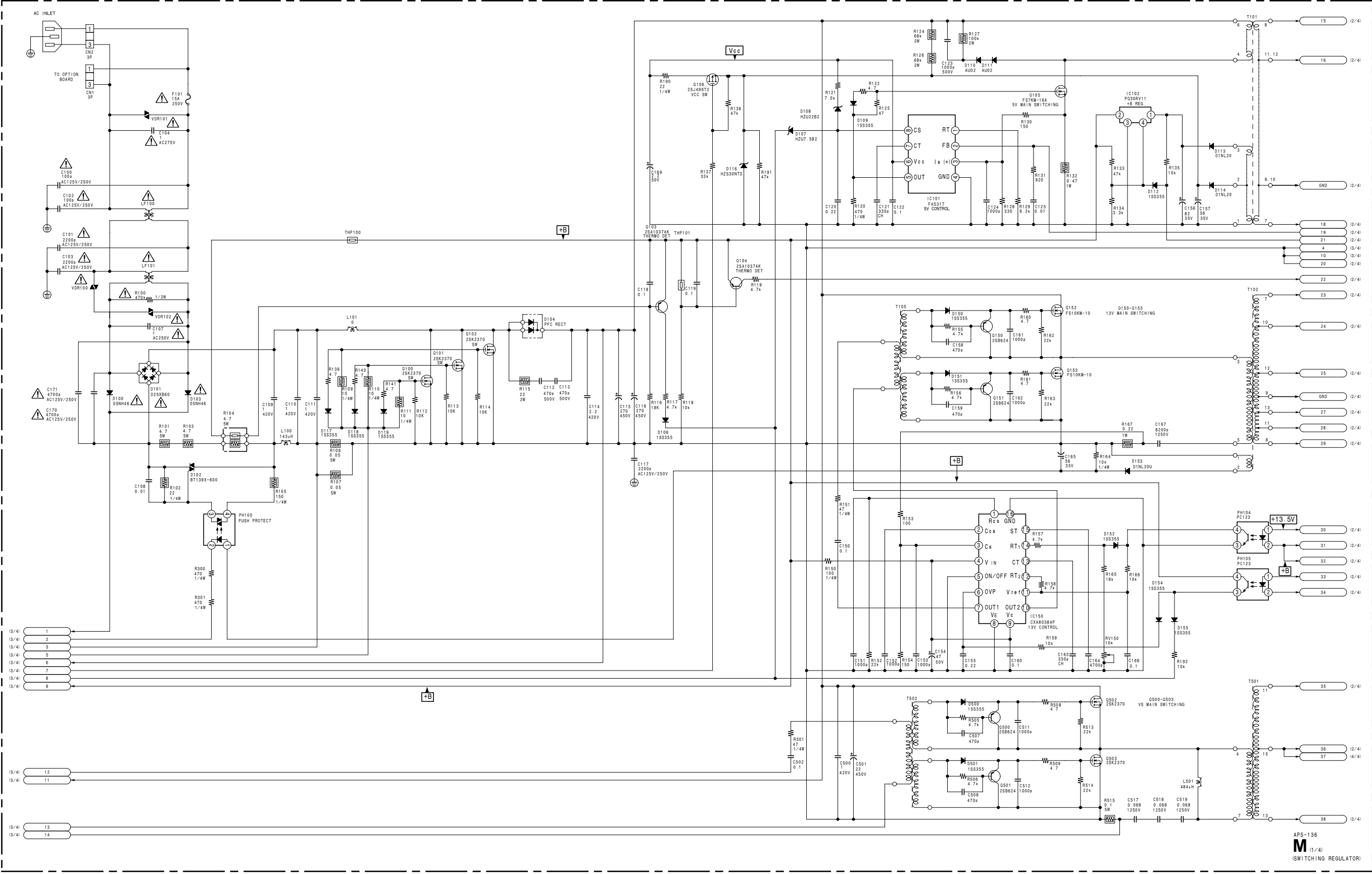
S1 -A SIDE-
SUFFIX: -11



S1 -B SIDE-
SUFFIX: -11



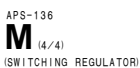
PFM-500A3W



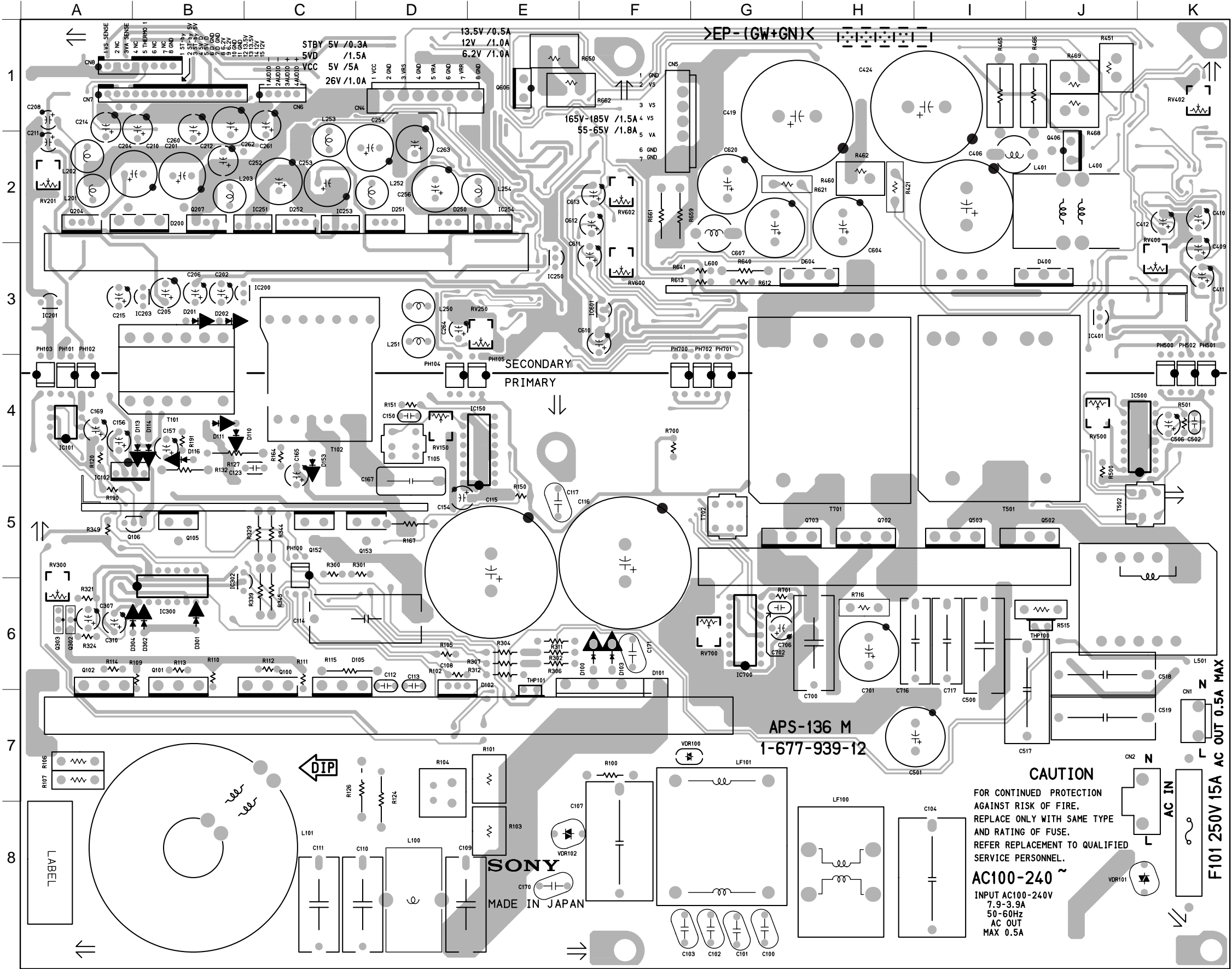
APS-136
M (1/4)
(SWITCHING REGULATOR)

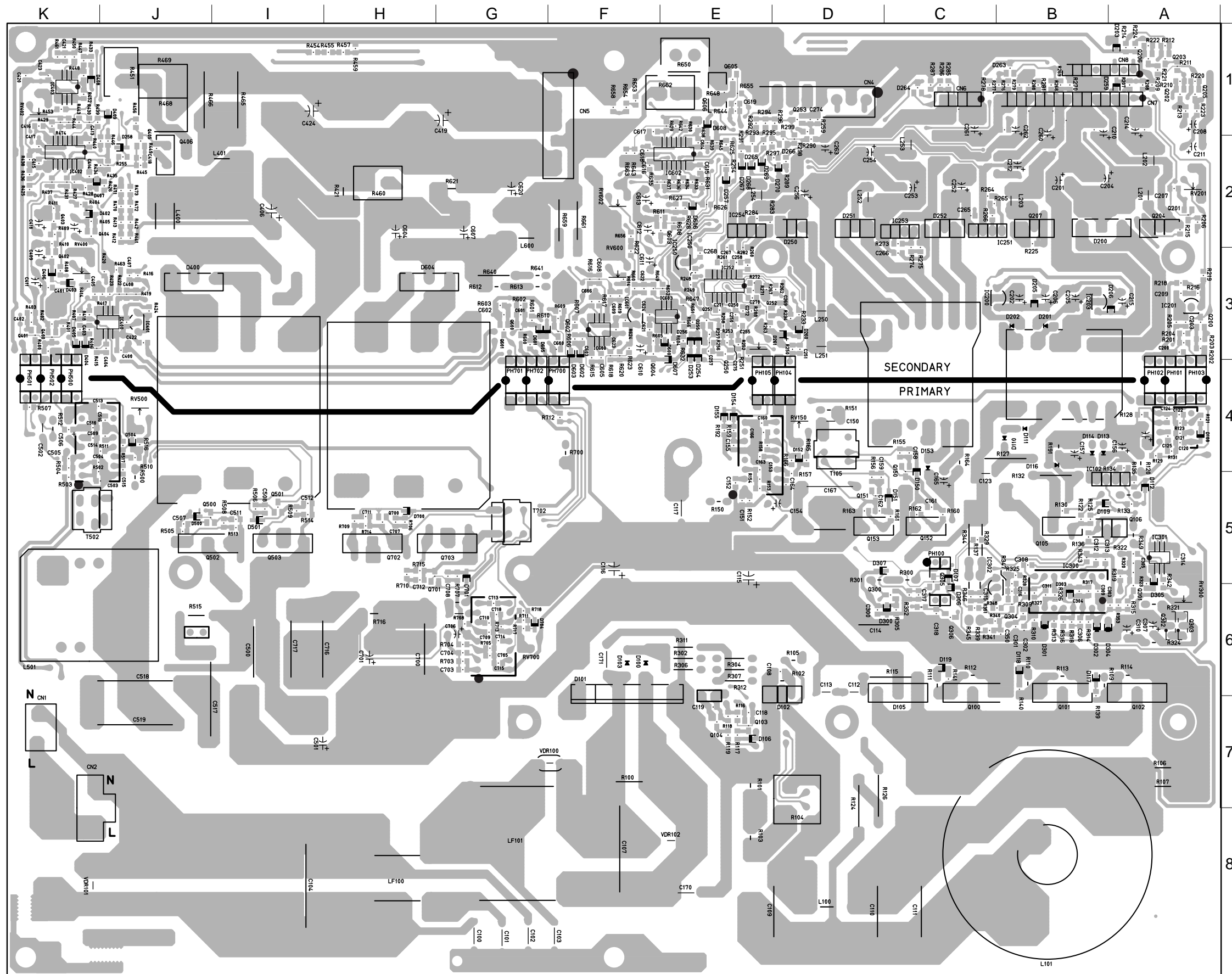
B-SS9694J-M-P1. EPS





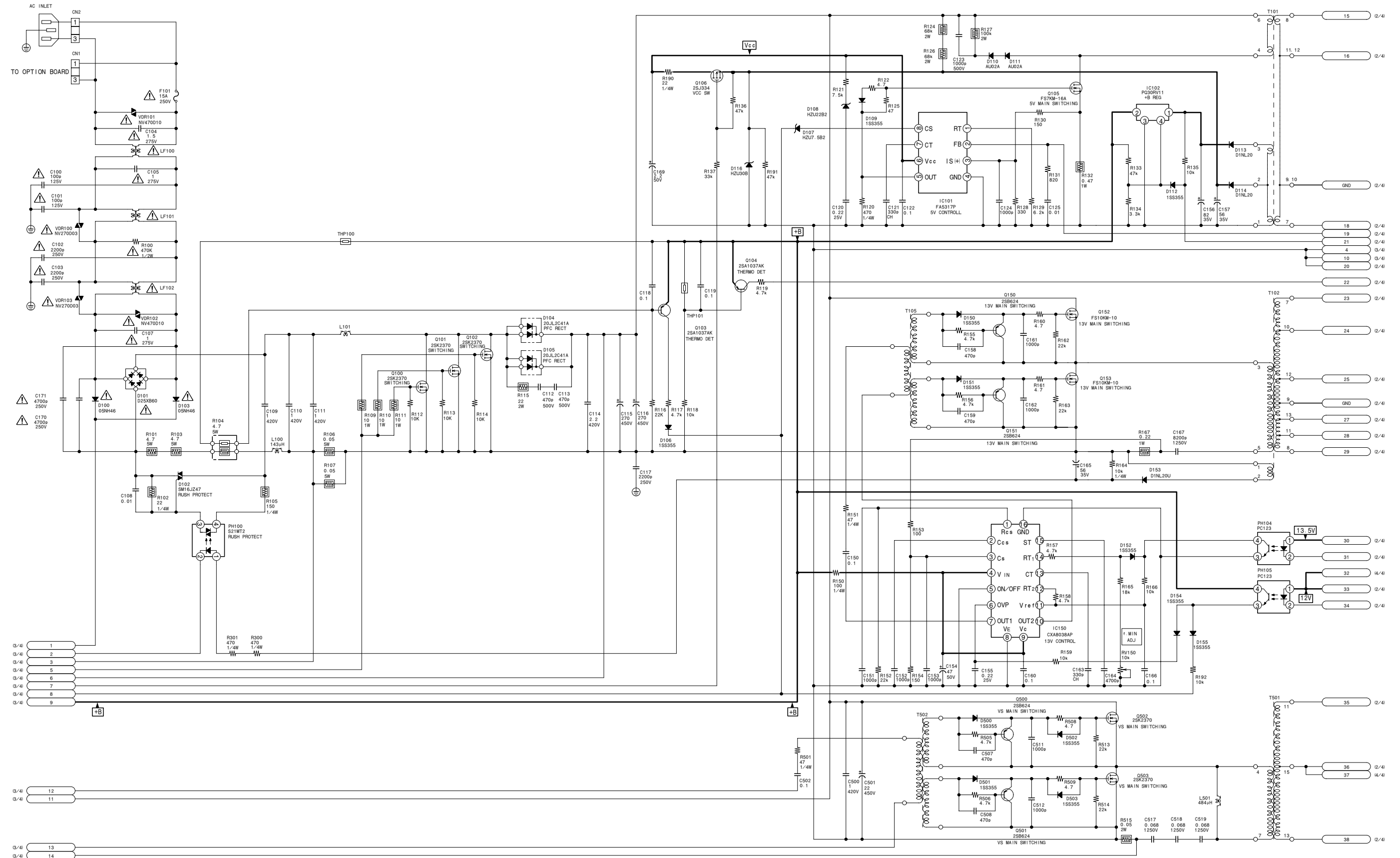
PFM-500A3W





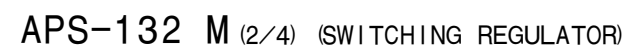
APS-136 M -B SIDE-
SUFFIX: -12

PFM-510A2W



APS-132 M (1/4) (SWITCHING REGULATOR)

APS-132 M (2/4)



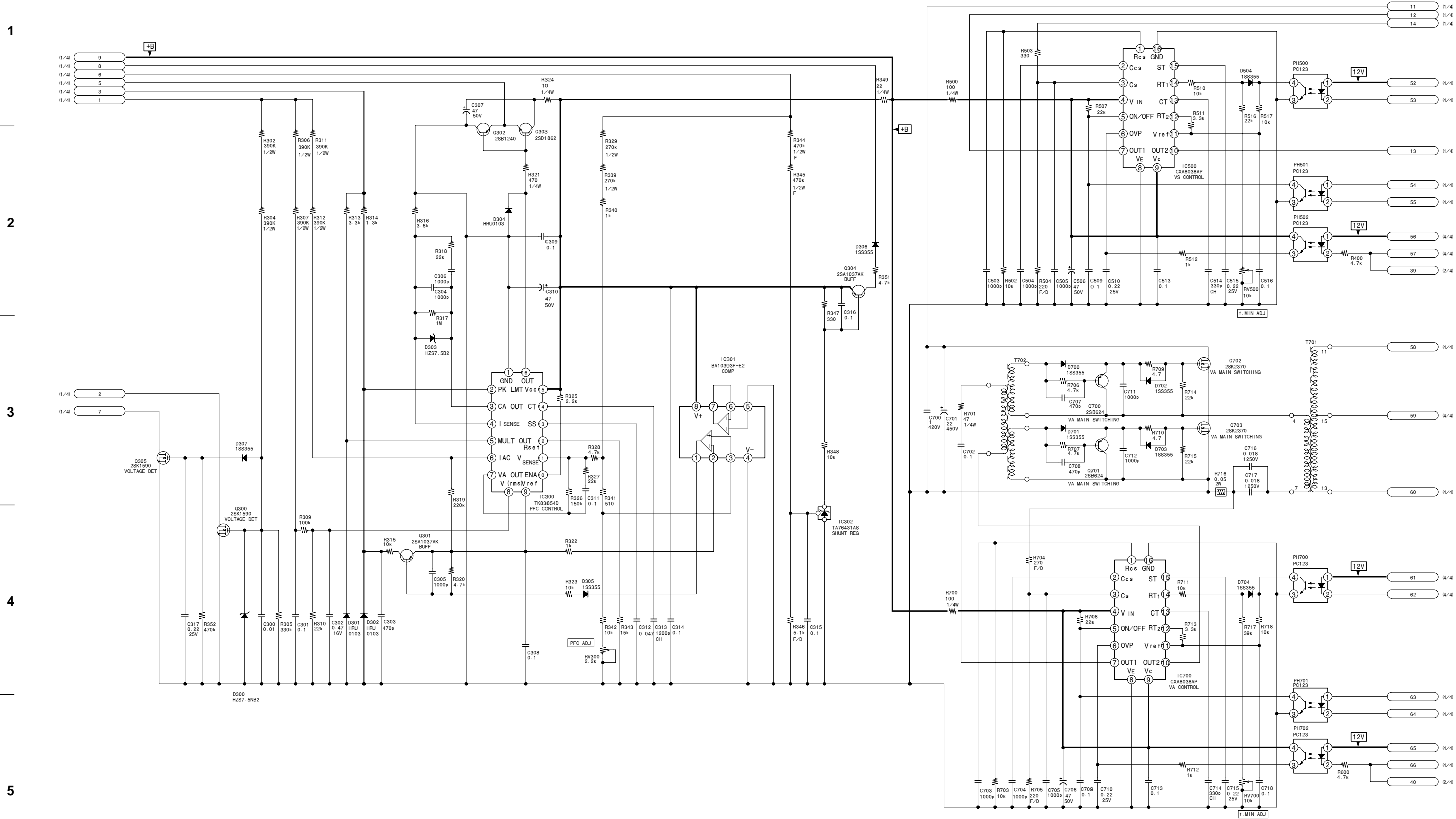
1

2

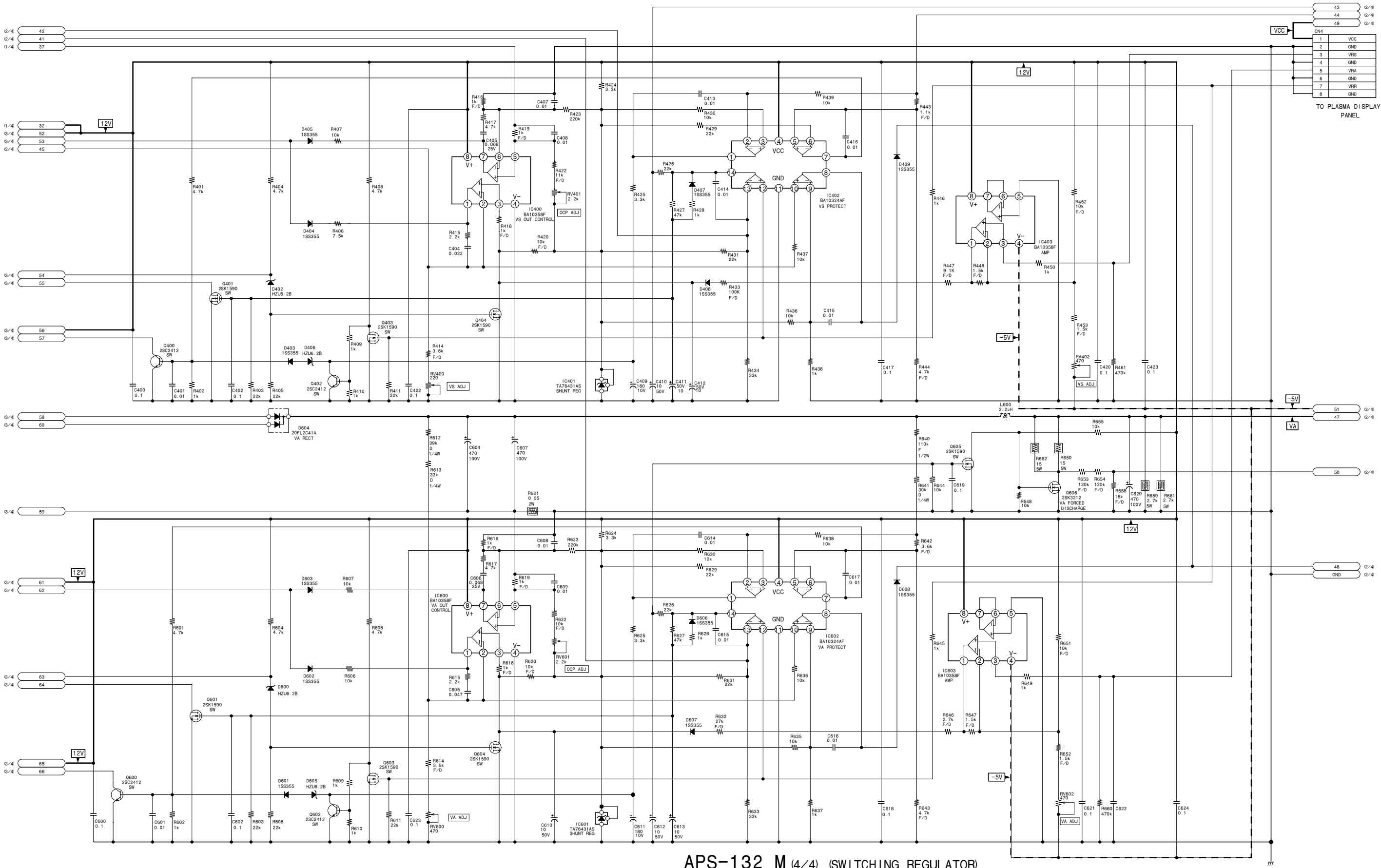
3

4

5

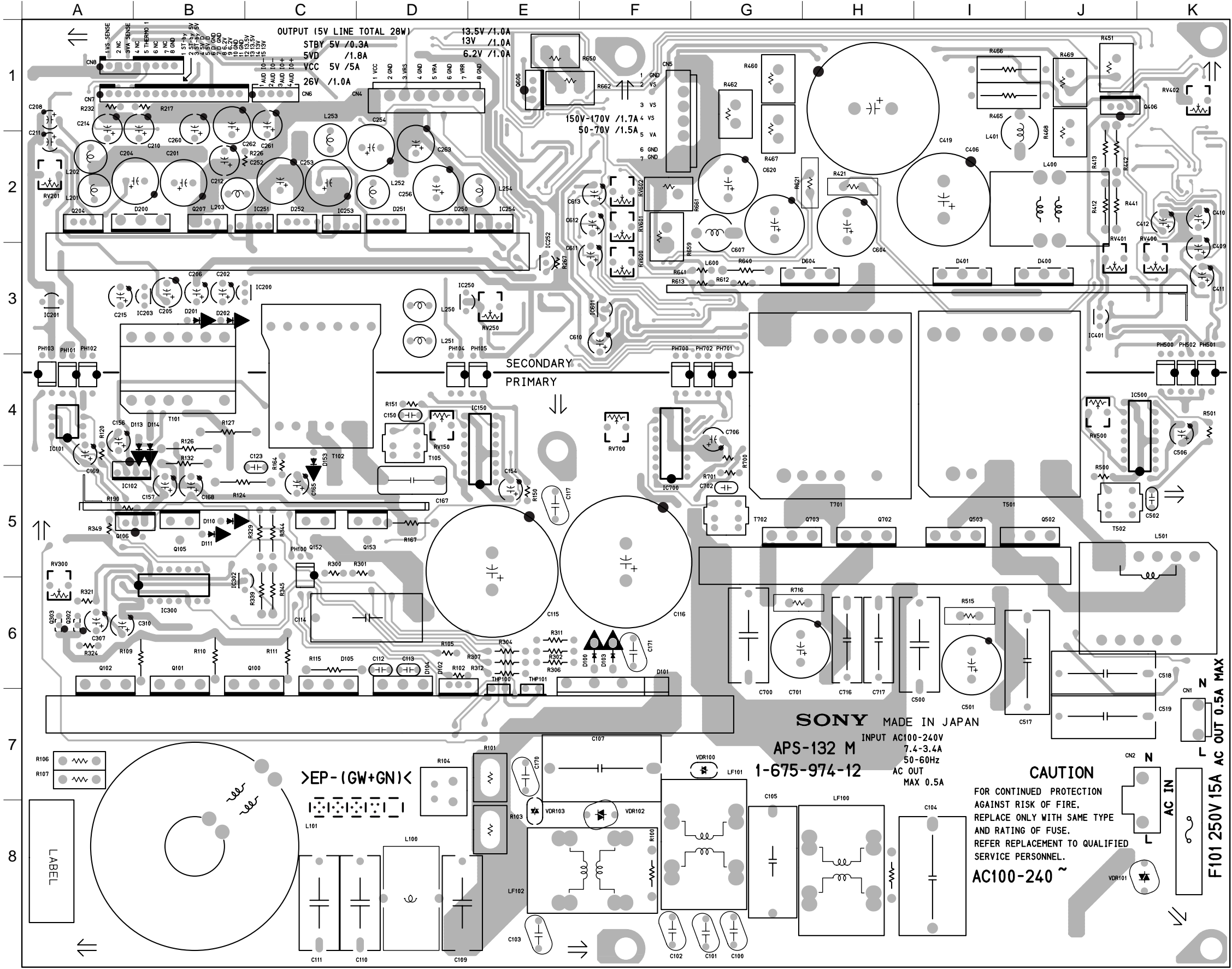


APS-132 M (3/4) (SWITCHING REGULATOR)



APS-132 M (4/4) (SWITCHING REGULATOR)

PFM-510A2W

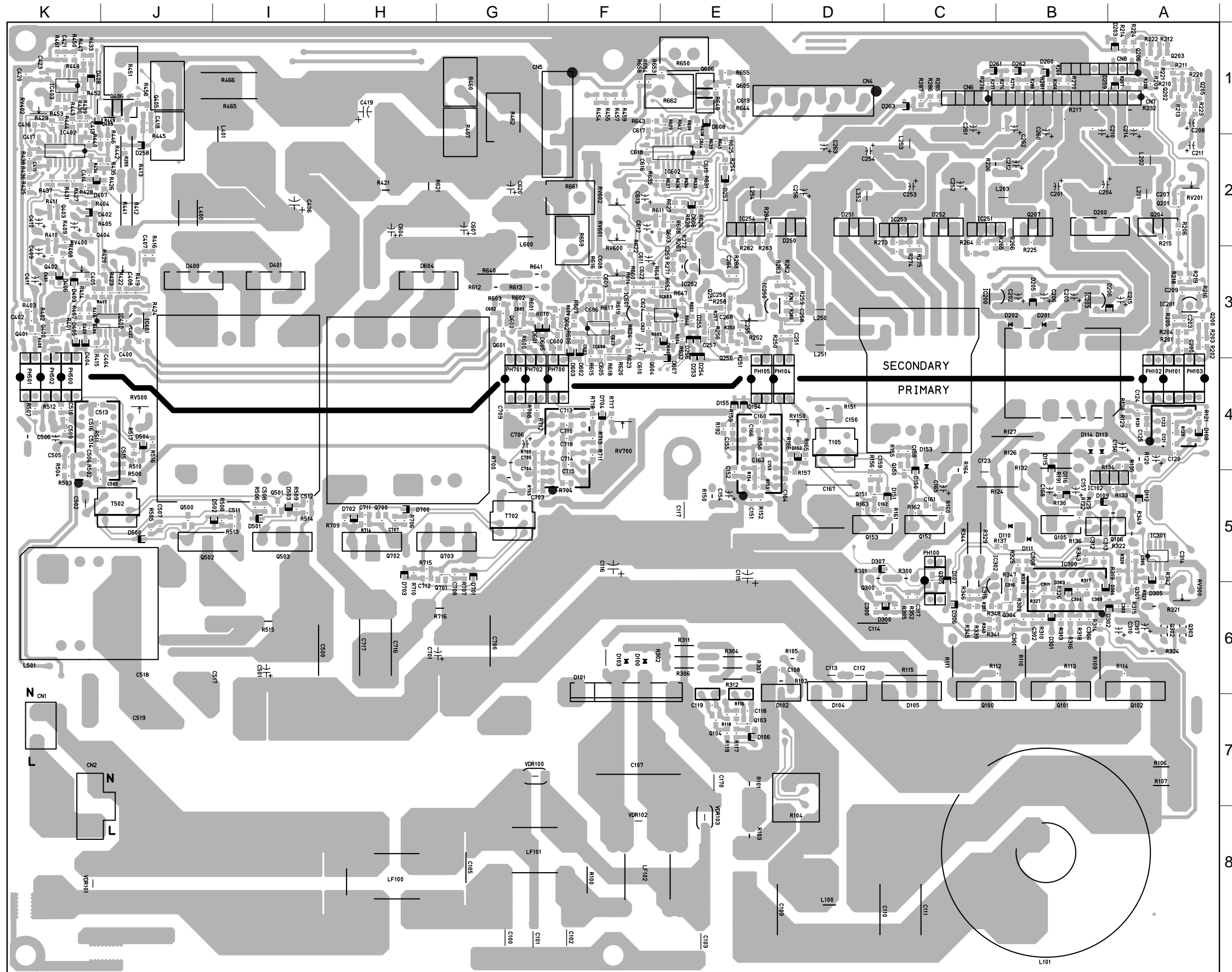


M BOARD (APS-132)

* : B SIDE

D100	F-6	IC203	B-3
D101	F-6	IC250	D-3
D102	D-6	IC251	C-2
D103	F-6	IC252	E-3
D104	D-6	IC253	C-2
D105	C-6	IC254	E-2
D106	* E-7	IC300	B-6
D107	* C-5	IC301	* A-5
D108	* A-4	IC302	B-6
D109	* B-5	IC400	* J-3
D110	B-5	IC401	J-3
D111	B-5	IC402	* K-2
D112	* A-5	IC403	* K-1
D113	B-4	IC500	K-4
D114	B-4	IC600	* F-3
D115	* B-4	IC601	F-3
D116	* B-5	IC602	* E-2
D150	* C-5	IC603	* E-3
D151	* C-5	IC700	F-4
D152	* D-4		
D153	C-4	Q100	C-6
D154	* E-4	Q101	B-6
D155	* E-4	Q102	A-6
D200	B-2	Q103	* E-7
D201	B-3	Q104	* E-7
D202	B-3	Q105	B-5
D203	* A-1	Q106	A-5
D205	* B-3	Q150	* C-5
D206	* B-3	Q151	* D-5
D250	D-2	Q152	C-5
D251	D-2	Q153	D-5
D252	C-2	Q200	* A-3
D253	* E-3	Q201	* A-2
D254	* E-3	Q202	* A-1
D255	* E-3	Q203	* A-1
D256	* E-3	Q204	A-2
D257	* E-2	Q205	* A-1
D258	* J-2	Q206	* A-1
D259	* B-1	Q207	B-2
D260	* B-1	Q250	* E-3
D261	* C-1	Q251	* E-3
D262	* B-1	Q300	* D-6
D263	* C-1	Q301	* A-6
D300	* C-6	Q302	A-6
D301	* B-6	Q303	A-6
D302	* A-6	Q304	* B-6
D303	* B-6	Q305	* C-5
D304	* A-6	Q400	* K-3
D305	* A-6	Q401	* K-3
D306	* C-6	Q402	* K-3
D307	* D-5	Q403	* K-2
D400	J-3	Q404	* K-2
D401	I-3	Q405	* J-1
D402	* K-2	Q406	J-1
D403	* K-3	Q500	* J-5
D404	* K-3	Q501	* I-5
D405	* K-3	Q502	J-5
D406	* K-3	Q503	I-5
D407	* K-2	Q600	* G-3
D408	* K-1	Q601	* G-3
D409	* K-1	Q602	* F-3
D500	* J-5	Q603	* E-2
D501	* I-5	Q604	* F-4
D502	* I-5	Q605	* E-1
D503	* I-5	Q606	* E-1
D504	* J-4	Q700	* H-5
D600	* E-3	Q701	* G-6
D601	* G-3	Q702	H-5
D602	* F-3	Q703	G-5
D603	* F-3		
D604	H-3	RV150	D-4
D605	* G-3	RV201	A-2
D606	* E-2	RV250	E-3
D607	* E-3	RV300	A-6
D608	* E-1	RV400	K-3
D700	* H-5	RV401	J-3
D701	* G-5	RV402	K-1
D702	* H-5	RV500	J-4
D703	* H-5	RV600	F-3
D704	* F-4	RV601	F-2
		RV602	F-2
		RV700	F-4
IC101	A-4	THP100	E-6
IC102	A-5	THP101	E-6
IC150	E-4		
IC200	C-3		
IC201	A-3		

APS-132 M -A SIDE-
SUFFIX: -12



APS-132 M -B SIDE-
SUFFIX: -12

